Construction News

★Denotes work advertised in ENGINEERING NEWS.
✚Denotes contract awarded. The names of bidders awarded contracts are set in CAPITALS.

CLEARING OF BUSINESS SKIES

Order is coming out of chaos and the financial storm, caused by the stupendous demand for gold from abroad, has abated. Conditions, although still highly sensitive, are improving. Exchange with Europe is obtained only at abnormal prices, but it is possible to do business. Domestic finance is in better condition. It will be many months before order, even in this country, is restored, but how usual values will be depreciated depends on the authorities. Certainly bankers are acting with far more skill and patriotism than they did seven years ago. Interest rates are extremely high. In New York, at least, trust companies refuse to make building loans.

The importation of foreign materials used by American consumers and manufacturers has been largely curtailed, but ocean traffic is gradually augmenting and trade with England, France, Italy and the far East will probably soon be restored. Some very severe competition is cut off for the present because Germany is unable to ship to this country.

Exports of food stuffs are resuming. It will not be long before other commodities also can be sent to foreign buyers. The cotton shipments, which in a large measure offset our unfavorable balance of trade each year are held up and must be caused by home bankers.

Domestic trade has slowed down appreciably. The cutting down of individual expenditures has had its effect in all lines. The buying of food stuffs in anticipation of higher prices has been a feature, and reducing lines of seasonable merchandise by drastic cuts is evident. Stocks, however, are not heavy in any line, neither has there been any marked expansion among disturbers.

The agricultural situation calls for closer observation now than it has in a number of years. The wheat crop is practically the largest on record, and the corn crop, while somewhat of a disappointment compared with that of 1911, is still well above the 10-year average. Those of other grains and hay are large. It must be remembered that grain raising has been abandoned in many localities for general farming, and while the output of corn in bushels may not be as great the food stuff raised for cattle is much larger than ever before and moreover it is evident that there are more cattle in the country now than a year ago. Wheat prices advanced rapidly the last two weeks of August, but since that time have eased off appreciably. It is possible that the highest prices will not be reached until next year.

Business Gains and Losses

New factories will come into being in many diversified lines. A leading importer of ball bearings is building a factory in Philadelphia to employ at least 1000 men to make ball bearings by automatic machinery; a Worcester, Mass., toy manufacturer has recently doubled the capacity of his plant; a Massachusetts engineering firm has taken an order for a coal-handling plant for Australia. American manufacturers of textiles are looking for some method by which dyes can be produced in this country. Numerous additions to manufacturing plants must be made as a result of the European upheaval.

A few catalogs in English, some mimeograph letters in poor Spanish and a list of addresses from a New York mailing house will not bring trade from South America. The money and time that have been wasted in trying to make the people of South America step up and buy what American merchants want to sell is appalling. There is business there, but it's trade and not orders. To secure business of any kind it must be done the way the inhabitants in those countries are accustomed to doing it. Tools must be supplied for their units, not ours; their needs must be studied. It is a fertile field, rich in possibilities and will bring tremendous return to the few who are going to secure it but it is no bonanza and must be worked. It must be remembered that there are at least a dozen different firms, each with a capital of over $1,000,000 who have been trading in South America for a decade or more.

The railway rate decision was not what the railroads expected, or at least hoped. It, however, did grant them a grain of comfort. While three of the commissioners signed the report, two filed dissenting opinions. On the previous application of the railways for higher rates it was vetoed in toto by the entire commission.

Municipal work will be slow until there is more assurance about financing the bonds. The City of New York has decided to go ahead with the subway construction, or at least as much of it as will enable the parts under construction to be operated. There seems to be comparatively little difficulty in selling water-works bonds in the West to local banks or sinking fund commissions, but the number of highway bond applications turned down by bankers have been notable. The inclination of the investing public to buy municipal isues is one of the things which bears the most important watching.

Providing suitable laws are enacted, there is every reason to believe that a number of vessels now owned by American corporations will fly the American flag. The question of the government going into the ocean-carrying trade is one of great danger and to say the least it seems scarcely necessary for the Federal government to buy high speed palatial passenger vessels, designed for a lucrative traffic in the North Atlantic, when there is little possibility of much traffic of this character for several years to come. The mobility of shipping and the ability of one boat to carry more tons in a year due to the Panama Canal should not be lost sight of, but it is a notable fact in the history of this country that whenever better methods of transportation have been provided, the traffic has soon grown in proportion to the facilities.

Price Changes

Extreme fluctuation in tin has marked the course of that market during the month. Copper, early depressed in the failure of Europeans to buy recovered some of the loss. In spite of the shortage of ferro-manganese, there will be sufficient steel to meet the demand although prices are from $1 to $3 higher above the low level. No change was made in belting, but rubber is higher and all lines seem destined to go higher for the present.

CEMENT, LIME AND BRICK

Portland Cement—Prospects are brighter for a good winter business in cement than in many years. The Valparaiso docks will require half a million dollars worth of cement. Cable inquiries ar ecoming to American manufacturers, asking 'How soon can you ship 5000 bbl." Price is a secondary consideration. It is estimated that South America and the West Indies will require in the next year 15,000,000 bbl. of cement, which will take the surplus production of the Lehigh Valley District. Strenuous efforts are being made, not only to secure the business which is dropping into the laps of American manufacturers, but to put it on such a footing that it can be held for all time. Despite reports to the contrary, prices have not changed. In New York there is a falling off in the demand at present, with the feeling that trade during the winter will be exceptionally dull. This is scarcely true, however, for the subway work will go forward. Stocks on hand on July 1 were 10,000,000 bbl., compared with 11,200,000 at the end of December. This is larger than it should be, but not unusual. Production during the first half of the year, according to Government reports, showed a curtailment of 4,000,000 bbl. compared with the previous year, being 35,000,000 bbl. Practically half of the falling off was in the Lehigh Valley District, which produced in the first half of the year 11,000,000 bbl.

Quotations in the East are unchanged at $1.59 per bbl. for delivery within lighterage limits of New York. This is equivalent to $1.46 Jersey City, and 95c. per bbl. in bulk at the mill.

The quotations given below do not include the allowance of 40c. made for bags returned. These quotations are as follows, per bbl., f.o.b. the points named:

Boston, $1.32; Cleveland, $1.35; Duluth, $1.38; Minneapolis, $1.40; Pittsburgh, $1.15; Chicago, $1.17; Detroit, $1.24; Jersey City, 1.06; New York, 1.13; St. Paul, $1.40.

IRON AND STEEL

Pig Iron—New business in pig iron is not large, and cancellations of contracts or requests for deferred shipment are few. The cast-iron pipe interests bought up approximately 60,000 tons of Southern Foundry iron; prices have not changed, and trade is purely a waiting one. It is evident that there will be no strenuous foreign competition for some time, and on the other hand, there are likely to be some foreign inquiries. Production has not been seriously curtailed. Business during August would undoubtedly have been small in any event, for July business was exceptionally large.

Quotations for lots of 100 tons and over are as follows at the points named: Cincinnati, Southern Foundry No. 2, $13.25 to 13.75; Northern Foundry No. 2, $14.25 to 14.75; Northern Foundry No. 3, $14.00 to 14.25. In New York, Northern Foundry No. 2X is $14.00 to 14.65, No. 2 plain, $14.25 to 14.50; and Southern Foundry No. 2 in New York market is $14.25 to 14.50. In Chicago, Northern Foundry No. 2 is $13.50 to 14.00. In Pittsburgh, bessemer is $14.90, and basic $13.90. These quotations include the 90c. freight rate from the valley to Pittsburgh. In Birmingham, Southern Foundry No. 2 is $10.00 to 10.25.

Steel Rails—Business has been extremely limited. None of the large railroads in this country have entered orders for any quantity of rails, and export business has been light. It is true that some orders have been taken for export but most of these were of light rails, and the tonnage involved is not large. Quotations for lots of 500 tons or over are given below. For smaller lots, somewhat higher prices are demanded.

Standard sections of bessemer rails, $28; open hearth rails, $30. These quotations are f.o.b. Pittsburgh. Girder rails in 30-ft. lengths are $36.40 per gross ton, and in 60-ft. lengths, $38.40, both f.o.b. New York. Standard open hearth rails are $1.34 per 100 lb., Pittsburgh; bessemer rails, $1.25; light rails, 25 to 45 lb. per yd. are $1.25, Pittsburgh or Chicago; 16 to 20 lb., $1.30; 12 lb. $1.35; 8 lb. $1.40. These quotations are f.o.b. both Pittsburgh and Chicago. Relaying rails are $23 to $24, Chicago, for standard section, and $21.50 to 22.50 for light section.

Track Supplies—Business has been extremely light, although some export inquiries have been received. The mills are running at less than 50% of capacity. Standard section angle bars in Pittsburgh and Chicago are 1.50; spikes in Pittsburgh are $1.40 to 1.45 for standard, and $1.50 to 1.60 for light, while in Chicago railroad spikes are at $1.55. Track bolts in Pittsburgh and Chicago are $2.00. All of these are per keg of 100 lb.

Structural Materials—Strictly new business is practically at a standstill. The railways have shut down and are not ordering any bridges, except for strictly repair work. Banks in New York and other eastern cities have refused to make building loans. Consequently, there is no building work being fabricated. In the Middle West, business is slightly more active, there being a number of schools where small tonnages are required, and one or two car orders have been placed. On the Pacific Coast there has been some bridge work.

Quotations are higher, the base price being $1.20 to 1.25 Pittsburgh for I-beams 3 to 15-in., Channels 3 to 15-in.; angles 3 to 6-in.; and Z's 3 in. and over. For angles, $1.30 to 1.35 is demanded; for I-beams over 15 in., H-beams over 18 in.; and angles over 6 in.; T's are $1.25 to 1.30. Channels and T's under 3 in., hand rail T's are $1.95 to 2.00. Cutting to specified lengths is charged at the following rates: Under 3 ft., to 2 ft. inclusive, 25c. per 100 lb.; 2 ft. to 1 ft., inclusive, 50c. per 100 lb.; cutting to lengths under 1 ft., $1.55. No charge is made for cutting to specified lengths over 3 ft.

Steel Shapes—Quotations from warehouse New York are as follows:

	Cents Per lb.
Refined iron.	
1 to 1⅞ in., round and square	1.80
1½ to 4 in. x ⅜ to 1 in.	1.80
1½ to 4 in. x ¼ to $\frac{5}{16}$ in.	2.00
Norway bars	3.20
Burdens bar iron	3.15
Soft steel:	
¾ to 3 in., round and square	1.80
1 to 6 in. x ⅜ to 1 in.	1.80
1 to 6 in. x ¼ and $\frac{5}{16}$ in.	1.95
Rods—⅝ and ½ in.	1.90
Bands—1½ to 6x $\frac{5}{16}$ in. to No. 8	2.10
Beams and channels—3 to 15 in.	1.85
Angles:	
3 in. x ¼ in. and larger	1.85
3 in. x $\frac{5}{16}$ in. and ⅛ in.	2.30
1½ to 2¾ in. x $\frac{5}{16}$ in. and thicker	1.95
1½ to 2½ in. x ⅛ in.	2.05
1 to 1¼ in. x $\frac{5}{16}$ in.	2.05
1 to 1¼ in. x ⅛ in.	2.10
1½ to 2½ x ¼ in.	2.00
1½ to 2½ x $\frac{5}{16}$ in.	2.10
3 in. and larger	1.90

REINFORCING MATERIALS

Bars, Concrete Reinforcing—Prices are higher, but there is very little new business. Quotations are as follows:

	Cents per pound		
Size	Mill shipments Pittsburgh	Warehouse Pittsburgh	Delivered from warehouse New York
¾-in. and larger	1.20	1.70	2.30
⅝-in.	1.25	1.70	2.35
½-in.	1.40	2.00	2.35
⅜-in.	1.50	2.10	2.50
¼-in.	1.80	2.35	2.80

Triangle Mesh—Quotations are without change as follows:

PRICE PER 100 SQ.FT.

		Plain material		Galvanized	
Style No.	Cross sec. area per ft. width	Carload lots	Less than car lots and over 10,000 sq.ft.	Carload lots	Less than car lots and over 10,000 sq.ft.
*4	0.102	$1.00	$1.23	$1.12	$1.34
5	0.077	0.80	0.97	0.89	1.00
6	0.058	0.63	0.77	0.71	0.84
*7	0.041	0.49	0.60	0.55	0.66
*23	0.170	1.69	2.05	1.88	2.24
24	0.142	1.46	1.77	1.62	1.93
25	0.124	1.29	1.57	1.43	1.71
*26	0.110	1.17	1.42	1.30	1.55
*27	0.085	0.96	1.17	1.07	1.28
28	0.066	0.80	0.97	0.89	1.06
29	0.049	0.66	0.80	0.73	0.87
31	0.261	2.49	3.02	2.76	3.29
32	0.225	2.16	2.62	2.40	2.86
33	0.196	1.93	2.34	2.14	2.55
34	0.146	1.48	1.80	1.64	1.96
35	0.109	1.117	1.42	1.30	1.55
36	0.075	0.87	1.05	0.97	1.15
38	0.380	3.55	4.30	3.93	4.68
*39	0.325	3.05	3.70	3.38	4.03
40	0.283	2.68	3.25	2.97	3.54
41	0.208	2.05	2.48	2.27	2.70
42	0.151	1.55	1.88	1.72	2.05
*43	0.101	1.10	1.34	1.23	1.46

*This material is made in regular widths of 18, 22, 26, 30, 34, 42, 46, 50, 54 and 58 in. Standard lengths in rolls are 150, 250, 300 and 600 ft.

METALS

Copper—Curtailment of production has taken place at almost all of the copper mines in the country, and it is evident that the consumption of copper will have a severe setback for a number of years. It has been a recognized fact in the copper trade that the consumption of this metal bore a direct ratio to the prosperity of the electrical industry; as the problem of electrifying railways is chiefly one of finance, there will be no boom in copper for some time. In view of this, it has been surprising that prices have held as well as they have, for copper did not fall below 12c. for electrolytic and the mar et is now 12.375c. It must be admitted that the demand r metal is extremely light.

Pig Tin—Price changes in pig tin for the first 15 days f August resembled betting at a horse race more than anyth s else. Prior to the declaration of war, tin sold in New Y k at 31c. By Aug. 3 the price had advanced to 55c., while Aug. 6, 63c. was paid. As high as 67c. was paid for 5-ton l prior to the middle of the month; but on the 17th, pri tumbled and business was done at 39c. From this le quotations rapidly jumped back to 48c., which was recor on the 18th. Since that time the market has settled do and been more or less orderly at from 37 to 42c.

Lead—Business has scarcely been affected by the distu ance in Europe. Prices are slightly higher, and in 50-t lots lead sells at 3.90@3.95c. per lb. New York, and 3.75 3.80c. St. Louis.

Spelter—Most of the spelter used in Great Britain h previously been imported from Germany. This source o supply being cut off, it was necessary to draw on Americ Prices advanced fully 1c. per pound, and as high as 6.12½ was paid. It is estimated that between 10,000 and 15,000 ton of spelter were sold for export. The supply of spelter wi shortly be increased by the importation of Mexican ore.

Antimony—The first fear of the war has subsided. Antimony which sold at 8c. in July and 20c. in August is now 14c.

Aluminum—The domestic supply seems to be ample for present, and possibility of new domestic competition is keeping prices down. Aluminum in ingots is quoted at 20@21c. per lb.

Copper Sheets—The price is lower at 18c. per lb.

Miscellaneous Metals—Prices are low, and it is sometimes possible to shade even the quotations given below, which are for small lots:

Bismuth	$2.25
Brass tubes, iron-pipe sizes:	
½-in.	.17
¾ to 3-in.	.16
3½-in.	.16
4-in.	.17
Brass rods	.15¼
Brass sheets	.15½
Solder, half and half guaranteed	.32
Zinc sheets	.08½
Manganese bronze rods	.23½
Copper sheets, base	.18
Pig tin (five-ton lots, cash)	.40

Old Metals—The following quotations are for small lots delivered at buyer's warehouse:

	Cents
Copper, heavy and crucible	12.00
Copper, heavy and wire	11.75
Copper, light and bottoms	10.25
Brass, heavy	7.75
Brass, light	6.25
Heavy machine composition	10.50
Composition turnings	9.00
Lead, heavy	3.40
Lead, tea	3.15
Zinc scrap	3.75

CLAY PRODUCTS

Sewer Pipe—Business has been less active. Many manufacturers are threatening to close their mills down earlier in the season than usual. Prices are slightly lower than last month, the revised discounts being as follows: 24-in., 80%; 27- and 30-in., 70%; 33- and 36-in., 65%. At these discounts the net prices per ft. in New York are as follows:

Size		Size	
3-in.	$0.05	18-in.	$0.38
4-in.	0.15	20-in.	0.45
5-in.	0.08	22-in.	0.60
6-in.	0.08	24-in.	0.65
8-in.	0.11	27-in.	1.35
10-in.	0.16	30-in.	1.65
12-in.	0.20	33-in.	2.20
15-in.	0.27	36-in.	2.45

Flue Lining—Another revision has been made in the price of flue lining, and the new discount is 83% from list. At this discount, the net prices per foot for New York delivery are as follows:

	Weight in lb.	Price per ft.		Weight in lb.	Price per ft.
4½x8½-in.	14	$0.59	8½x18-in.	45	$0.152
4½x13-in.	20	0.076	13x13-in.	45	0.145
7½x7½-in.	15	0.068	13x18-in.	57	0.22
8½x8½-in.	18	0.076	18x18-in.	75	0.34
8½x13-in.	28	0.11			

Comparative Prices—Movements in the prices of staples are less violent. The following comparison illustrates the slower trend:

Wholesale Prices	July 1	Aug. 10	Sept. 1
Pig tin, per lb.	$0.31	$0.64	$0.40
Solder, per lb.	0.20	0.38	0.30
Antimony, per lb.	0.07½	0.16	0.14
Rubber (up river), Para fine, per lb.	0.60	1.20	0.80
Quicksilver, per flask	35.00	85.00	75.00
Sugar, 100 lb.	4.40	6.00	7.25
Flour, per bbl.	4.50	5.85	6.25
Corn, bu., Dec. (Chicago)	0.55	0.72	0.80
Wheat, bu., Dec. (Chicago)	0.77	0.98	1.09

The Leadite Co., Inc., Philadelphia, Penn., has issued a comparison showing the approximate quantities and cost of making joints, with leadite and pig lead, based on the American Water Works Association standard bell and spigot cast-iron pipe. On sizes up to 36 in., the approximate quantity is 2 lb. per joint, costing 10c. per lb. For larger pipe, the quantity of material used is slightly more per inch of diameter.

RAILWAYS

✝Pennsylvania—Pennsylvania R.R.—A. L. ANDERSON & BROS., INC., Altoona, Penn., has been awarded a contract by this company for constructing a 3½ mile extension of the Homer and Cherrytree branch of the Conemaugh division.

West Virginia—Charleston, Parkersburg & Northern Ry.—Preliminary arrangements are being made by this company to award contracts for the construction of a portion of its proposed railroad to connect Charleston, W. Va., and Parkersburg, about 75 miles. H. H. Archer is Pres. and K. B. Stephenson, Secy., both of Parkersburg, W. Va.

North Carolina—Southern Ry.—Bids are being received by this company for double-tracking its line from Craggy, N. C., to a point two miles east of Marshall, N. C., about 15 miles. W. H. Wells, Washington, D. C., is Ch. Engr. Const.

✝North Carolina—Southern Ry.—A contract for constructing 30 miles of second track between Pelham and Greensboro, N. C., has been awarded by this company to the PARKER BROOKS CONSTRUCTION CO., Greenville, S. C., and to the MORROW CONTRACTING CO., Atlanta, Ga. Noted Aug. 20.

Central Carolina R.R.—According to press reports plans are being prepared by this company for the construction of a railroad from Lillington, N. C., to Swansboro, N. C., about 100 miles. W. J. Edwards, Sanford, N. C., and J. R. Baggett, Lillington, N. C., are interested.

South Carolina—Savannah Western Ry.—This company has been incorporated to construct a railroad from Estill, S. C., to St. Paul, S. C., about 90 miles. The incorporators are Virgil Walker and Adrian M. Rea, Newbern, N. C., and C. H. Milligan, Charleston, S. C.

South Carolina—According to press reports, C. D. Neal, Wilmington, N. C., is interested in the construction of a railroad from Hartsville, S. C., to Society Hill, S. C., about 18 miles.

Florida—Edge-Dowling Lumber Co.—The construction of a railroad from its lumber operations at Groveland, Fla., to Dade City, Fla.

Mississippi—Nashville, Shiloh & Corinth R.R.—See item under Tennessee.

Tennessee—Nashville, Shiloh & Corinth R.R.—The citizens of Davidson County will vote on the proposition to issue bonds for $1,000,000 for the purpose of assisting this company in constructing a railroad from Nashville, Tenn., to Corinth, Miss., about 165 miles. C. C. Thoms, Corinth, Miss., is interested. Noted July 16.

Indiana—Cincinnati, Indiana & Louisville R. R.—Surveys have been started by this company for the construction of a railroad to connect Aurora, Rising Sun, Patriot, Florence, Markland, Vevay and Lamb, Ind., where a connection with the Louisville & Beaver River R.R. will be made. L. S. Cook is Pres.

Kansas—Atchison, Topeka & Santa Fe Ry.—This company plans to spend $40,000 for the extension of its yards at Florence, Kan. R. A. Rutledge, Kan., is Ch. Engr. Eastern lines.

✝Arkansas—Missouri, Arkansas & Southern R.R.—This company has awarded a contract for the construction of a railroad from Mena, Ark., to Hot Springs, Ark., about 80 miles, to the CENTURY CONSTRUCTION CO., Mena. George D. Thayer, Mena, is Ch. Engr. Noted Aug. 6.

Texas—Gulf, Freeport & Northern R.R.—Plans are being prepared by this company for the extension of its line from Freeport, Tex., to Rosenburg, Tex. C. L. Sharp, Freeport, is Gen. Mgr.

Idaho—Blackwell Lumber Co.—Plans are being prepared by this company for the construction of about five miles of logging road at Fernwood, Idaho.

Oregon—Teal Creek R. R.—This company has been incorporated to construct a logging railroad out of Fall City, Ore. The incorporators are F. J. Cobb, Zera Snow and Wallace McCamant.

California—Atchison, Topeka & Santa Fe Ry.—An expenditure of $300,00 is planned by this company for the improvement of the lines on its Los Angeles Division. F. M. Bisbee, Amarillo, Tex., is Ch. Engr. Western lines.

ELECTRIC RAILWAYS

Holyoke, Mass.—The Holyoke Street Ry. Co. plans to spend about $15,000 for laying new track from the Williamsett Bridge through Holyoke. Louis D. Pellissier, Holyoke, is Gen. Mgr. and Pur. Agt.

New Haven, Conn.—The Shore Line Electric Ry. Co. has been granted permission to extend its line from Backus Corner along Salem Turnpike. Samuel Anderson, Norwich, is Gen. Mgr.

Bayport, N. Y.—The Suffolk Traction Co. has applied to the Public Service Commission of the Second District for permission to construct an extension to its line from Bayport to Sayville. J. C. Brackenridge, 95 Liberty St., New York, N. Y., is Gen. Mgr. and Ch. Engr.

New Brunswick, N. J.—The Board of Chosen Freeholders has granted the Public Service Co. permission to extend its system in Highland Park. R. E. Danforth, Newark, is Gen. Mgr.

Washington, Penn.—The Borough Council has granted a franchise to the Monongahela, Ellsworth & Washington Ry. Co. to construct and operate an electric railway on certain streets in the borough.

York, Penn.—George B. Wilson, H. S. Williamson and Allen A. Herr are interested in the construction of an electric railway along the Harrisburg Pike to Long Park and the fair grounds.

Hagerstown, Md.—Plans are being considered by the Hagerstown & Frederick Ry. Co. for the extension of its line to the Country Club. Franz Von Schilling, Hagerstown, is Gen. Mgr.

Salisbury, Md.—The Salisbury Interurban Ry. Co. plans to start work soon on the construction of its proposed electric railway to connect Salisbury, Heron, Tyaskin, Bivalve and Nanticoke, about 30 miles.

Covington, Ga.—Preliminary arangements are being made by the Covington & Oxford Street Ry. Co. for the construction of an electric railway from Covington to Oxford. Noted Jan. 22.

Hopkinsville, Ky.—R. E. Cooper has purchased a franchise from the city to construct and operate an electric railway in Hopkinsville. Noted Feb. 12.

Chauncey, Ohio—The Hocking-Sunday Creek Traction Co. contemplates a bond issue for $156,000, the proceeds of which will be used for the construction of an electric railway from Chauncey to Athens, about 7½ miles. E. B. Young, Nelsonville, Ohio, is Pres. and Gen Mgr.

Indianapolis, Ind.—Plans are being prepared by the Indianapolis Traction & Terminal Co. for the extension of its line on West Tenth St. from Holmes to Tibbs Ave. R. R. Smith, Indianapolis, is Pur. Agt.

Monroe, Mich.—The Toledo, Ottawa Beach & Northern Ry. Co. has been granted permission to extend its electric railway through Monroe. F. R. Coates, Toledo, Ohio, is Pres. and Gen Mgr.

Peoria, Ill.—The Peoria Ry. Co. has applied to the City Council for a franchise to double-track its lines on Pennsylvania Ave. from Jackson St. to Indiana Ave. R. W. Bailey, Peoria, is Gen. Supt.

Rock Falls, Ill.—The Rock Falls & Southern Traction Co. is considering plans for the construction of an electric railway to connect Sterling, Lass, Rock Falls, New Bedford, Tampico, Princeton, Setonville and Kewanee. Andrew S. Goodell, Rock Falls, is Secy.

New Duluth, Minn.—Plans are being considered by the Duluth-Superior Traction Co. for the construction of a two-mile extension to its line in New Duluth. Herbert Warren, Duluth, is Vice-Pres. and Gen. Mgr.

Kansas City, Mo.—Plans are being considered by R. A. Long and associates for the construction of an electric railway to connect Kansas City, Lees Summit, Pleasant Hill and Harrisonville.

Dallas, Tex.—The City Commission has granted a franchise to John T. Jones and associates to construct and operate an electric railway in East Dallas.

Salt Lake City, Utah—The City Commission has granted a franchise to the Utah Light & Ry. Co. for the construction of an electric railway on Fifth and Seventh South Sts. Joseph S. Wells, Salt Lake City, is Gen. Mgr.

Tacoma, Wash.—See item under Miscellaneous: Rails, Tacoma, Wash.

Milwaukee, Ore.—The City Council has granted a franchise to L. H. Campbell to construct and operate an electric railway in Milwaukee.

✝Fresno, Calif.—The Fresno Interurban Ry. Co. has awarded a contract to MAHONEY BROS., San Francisco, for constructing the second unit of its line from Alvina Heights to Clovis. Noted June 18.

Stockton, Calif.—The Stockton Electric R.R. Co. has been granted franchises to construct double track extensions to its lines in San Joaquin County. Frank W. Webster, Fresno, is Gen. Mgr. and Pur. Agt.

Visalia, Calif.—The Visalia Electric R.R. Co. will construct a two-mile extension from Rose Station to Elderwood. Frank W. Webster, Fresno, is Gen. Mgr.

Edmonton, Alta.—The Tramways Co., Ltd., has recently been organized for the purpose of constructing an electric railway from Edmonton to Fort Saskatchewan, about 18 miles.

LIGHT, HEAT AND POWER

Albany, N. Y.—(Official)—Bids will be received until 2 p.m., Sept. 10, by the Trustees of Public Buildings, Capitol, Albany, for heating and ventilating apparatus, plumbing and electric wiring for rooms of the fifth floor of the New York State Capitol. Lewis F. Pilcher is State Arch.

Bath, N. Y.—Plans have been completed for the construction of a municipal electric light plant, at a total cost of $50,000 for the building and equipment. W. W. Babcock is Chn. Bldg. Com.

★Potsdam, N. Y.—(Official)—Bids will be received until noon, Sept. 5, by Thomas E. Finegan, Asst. Comr. for Elementary Education, Education Bldg., Albany, N. Y., for new boilers at the Potsdam Normal School. See advertisement under Contracts To Be Let.

Gloucester, N. J.—The City Council is considering an offer made by Councilman Lewis B. Reilly to install a municipal electric light plant at the city water works.

Perth Amboy, N. J.—The Perth Amboy Gas Co. is doubling the capacity of its gas plant at the foot of High St. The improvements, which include an addition to the condenser building and a new retort house, are estimated to cost $40,000.

Kittanning, Penn.—See item under "Water Supply and Irrigation."

Henderson, Ky.—(Official)—The Municipal Electric Light Station, L. P. Hite, Supt., will shortly ask for bids for the construction of a steel frame boiler room, 64x90 ft., to replace the one lately destroyed by a cyclone. Noted Aug. 6.

Irvine, Ky.—Clyde Gaines, Irvine, has made application for a franchise to establish and operate an electric light plant in Irvine. Noted Jan. 22.

Whitesburg, Ky.—K. U. Surman, representing the James Clark, Jr., Electric Co., Louisville, Ky., is interested in the organization of a company to build and operate an electric light plant in Whitesburg.

✝Cleveland, Ohio—The Commissioner of Purchases and Supplies has awarded the contract for the construction of the Walworth Ave. substation for the municipal electric light system to the C. N. GRIFFIN CO., 1825 East 12th St., Cleveland. Cost, about $30,000. Noted Aug. 13.

Bids wil be received until Sept. 21, by the Board of Education, for remodeling the electric wiring of the East High School. F. G. Hogan is Dir. of Schools.

DeGraff, Ohio—Plans are being prepared for the construction of a new municipal power plant to replace the one which was recently burned. J. T. Scott is Supt. Noted July 30.

East Gary, Ind.—The Town Council has engaged George F. Peterson, Miller, Ind., to supervise the construction of a transmission line and distribution system in East Gary.

Detroit, Mich.—Frank Van Tuyl, Arch., 1112 Union Trust Bldg., Detroit, is preparing plans for a power plant for the Detention Home in Detroit.

Pinconning, Mich.—Edward Jennings, owner of the Pinconning Light & Power Co., has sold the property and franchise to J. J. Thorne, Bay City, Mich. It is reported that the new owner will purchase new equipment for the plant, and will abandon the flat-rate system and will install meters.

Chicago, Ill.—Press reports state that the Commonwealth Edison Co. has purchased a site of 21 acres at 100th St. and Ave. N, and will erect a power plant to supply the manufactories of South Chicago and Burnside with energy. William A. Fox, Chicago, is Secy. and Treas.

Joliet, Ill.—The Board of Education is contemplating the installation of an electric light plant in the High School in connection with the new heating and ventilating system.

Cedar Rapids, Iowa—The City Council is considering plans for the construction of a dam across the Cedar River to cost about $125,000. The Iowa Ry. & Light Co. will pay a part of the cost of its construction. T. F. McCauley is City Engr.

Earlham, Iowa—It is reported that improvements, to cost about $8000, will be made to the municipal electric light and water plant. E. A. Baker is Supt.

Estherville, Iowa—See item under "Water Supply and Irrigation."

Grundy Center, Iowa—The plant of the Grundy Center Electric Co. was recently damaged by fire at a loss of about $10,000. J. B. Calderwood is Owner and Mgr.

Duluth, Minn.—The City Commissioners have adopted a resolution to offer to buy the property of the Duluth Edison Electric Co., at approximately $1,108,000. If the offer is refused, the city may condemn the Edison plant, and build a new municipal plant, or install a distributing system, and purchase the necessary power from the Great Northern Power Co. C. S. Palmer is City Clk.

South Stillwater, Minn.—It is reported that the municipal electric light plant in South Stillwater was recently destroyed by fire at a loss of about $20,000. Paul Pracht is Mgr. and Supt. of the plant.

+Virginia, Minn.—The Water & Light Commission has awarded the contract for the construction of a municipal high-pressure gas plant to the AMERICAN GAS CONSTRUCTION CO., Newton, Iowa, at about $58,000. Noted Aug. 13.

Uehling, Neb.—The Village Council is receiving bids for the construction of an electric light plant to cost about $7700, including a building, and a direct current, oil-engine driven plant with storage battery. V. L. Hollister, Lincoln, Neb., is Engr. in Charge.

Wessington Springs, S. D.—At a recent election, the citizens voted in favor of a bond issue of $20,000 for the establishment of a municipal electric light plant.

Gurdon, Ark.—The City Council has engaged Albert C. Moore, Joplin, Me., to prepare plans and supervise the construction of a municipal electric light plant.

Marshall, Ark.—The Town Council has granted a 40-year franchise to A. B. and V. B. Johnson, of the Marshall Milling Co., to build and operate an electric light plant in Marshall.

Gainesville, Tex.—The Texas Power & Light Co. is building a new power plant to cost about $50,000. A system of transmission lines will be constructed from the plant. L. J. Geer is Mgr.

Mexia, Tex.—The Southern Gas & Oil Co. plans to lay a pipe line from the Mexia natural gas field to Corsicana, a distance of about 30 miles, and will install a distributing system in Corsicana. Mark Logan is Vice.-Pres. of the company.

Roaring Springs, Tex.—It is reported that plans are being prepared for the establishment of a municipal electric light plant and waterworks system for the town.

Runge, Tex.—See item under "Water Supply and Irrigation."

Loveland, Colo.—At a special election on Aug. 8, the taxpayers voted in favor of establishing a municipal electric lighting system to cost about $12,000. Plans will be prepared, and the question of a bond issue for its construction will be submited to the voters at the November election. It is proposed to build a hydro-electric plant on the Big Thompson River, 12 miles west of Loveland.

Lewiston, Idaho—The City Council has commissioned James Morris, Consult. Engr., Portland, Ore., to prepare preliminary plans and estimates for the construction of a municipal power plant on the Clearwater River.

Plummer, Idaho—The State Public Service Commission, Boise, has granted permission to Dunkle Bros., Plummer, to construct and operate an electric light plant in Plummer. Work will be begun as soon as possible.

Nogales, Ariz.—The International Gas Co. will issue bonds for $300,000, the proceeds of which will be used for the construction of an electric light and ice factory.

Phoenix, Ariz.—The Arizona Hydraulic Power Co. has applied for permission to issue bonds for $2,000,000 for the purpose of building a dam and establishing a hydro-electric plant on the Verde River. E. H. Meek, Prescott, is interested in the enterprise.

Auburn, Wash.—The Auburn Gas Co. has been granted a franchise for the construction and operation of a gas manufacturing plant at Auburn. The estimated cost is $60,000. J. L. Veach is interested in the company.

Cathlamet, Wash.—It is reported that the city is considering the establishment of a municipal electric light plant.

+Seattle, Wash.—The Board of Public Works has awarded the contract for the completion of the Cedar River power dam, raising it to an elevation of 1600 ft., and increasing the horsepower, to the NETTLETON, BRUCE-ESHBACH CO., at $164,565.

+Pasadena, Calif.—The City Trustees have awarded the contract for a steam turbine electric generating unit for the municipal electric light plant to the ALLIS-CHALMERS CO. Milwaukee, Wis., at $36,675; the contract for a condenser was awarded to the C. H. WHEELER CO. at $6900.

San Francisco, Calif.—The Pacific Gas & Electric Co. has taken out a permit for work at its substation at 23d and Georgia St., to cost $39,000. Noted Aug. 6.

BRIDGES

Boston, Mass.—The War Department has approved the plans prepared for rebuilding the Wellington Bridge, which was burned on June 5. It will be of concrete, and is estimated to cost $115,000. John R. Rablin, 14 Beacon St., is Ch. Engr. of the Metropolitan Park Comrs. Noted June 11 and July 9.

+Norwalk, Conn.—The Board of Selectmen has awarded the contract for the construction of a steel bridge at Cross St. to the BERLIN CONSTRUCTION CO., Berlin, Conn., at $10,725. Noted July 10, 1913.

Buffalo, N. Y.—It is reported that the Board of Public Works will soon ask for bids for the construction of a steel lift bridge, about 100 ft. long, over the Buffalo River at Abbott Road. George H. Norton is City Engr.

+New Hartford, N. Y.—(Official)—The Town Council has awarded the contract for the construction of a reinforced-concrete bridge over Sauquoit Creek to WILLIAM F. COGLEY, 304 Paul Bldg., Utica, N. Y., at $11,892. Charles O. Podley is Town Clk. Noted Aug. 20.

Jersey City, N. J.—(Official)—Bids will be received until 10:30 a.m., Sept. 9, by the Boulevard Commissioners of Hudson County for the construction of a concrete arch over the old Railroad Cut on the Hudson Boulevard East, Weehawken Township. J. C. Sweeney is Clk. of the Comrs.

Ellwood City, Penn.—Plans are being prepared by Thomas A. Gilkey, Engr. of Lawrence County, for the construction of a reinforced-concrete bridge over the Connoquenessing River connecting Ellwood City with Hazeldell, which places have recently consolidated, taking the name of the former. The estimated cost of the bridge is $100,000, and bids will probably be asked some time this fall.

Pittsburgh, Penn.—Bids will be received until 2 p.m., Sept. 4, by R. J. Cunningham, County Controller, for the construction of two reinforced concrete bridges over Pine Creek. J. G. Chalfant, Room 308, Court House, is Engr. of Allegheny County.

Jacksonville, Fla.—The Board of Commissioners of Duval County has retained A. F. Harley, Consult. Engr., to prepare preliminary plans and estimates for the construction of a bridge over the St. Johns River. John H. Patterson is Chn. of the Bd. of Comrs. Noted July 9 and Aug. 6.

Chattanooga, Tenn.—Final plans have been completed for the construction of the Market St. Bridge over the Tennessee River, connecting Chattanooga with Hill City. The total length will be 2450 ft., of which 2100 ft. will be concrete construction and the remainder earth fill. There will be a steel lift span of 300 ft. It will cost about $500,000. Bids will probably be asked some time in September by the Tennessee River Bridge Committee, Theodore F. King is Chn. B. H. Davis, 17 Battery Place, New York, N. Y., is Engr. in Charge. Noted Jan. 22, Mar. 5, and Apr. 16.

Canton, Ohio—Bids will be received until 10 a.m., Sept 11, by the Board of Commissioners of Stark County for the construction of a bridge in Perry Township, including 348 cu.yd. of concrete, 435 cu.yd. of excavation, and 10,000 lb. of steel. C. L. Stoner is Clk. of Comrs.

The County Commissioners will build a new concrete arch over Nimishillen Creek at Tuscarawas St. West, as soon as the widening and repaving of this thoroughfare, as planned by the City Council, is completed.

Cincinnati, Ohio—(Official)—Bids will be received until noon, Sept. 25, by the Commissioners of Hamilton County for the construction of a concrete bridge over Eagle Creek on the Eagle Creek Road, Colerain Township. Albert Reinhardt is Clk. of Comrs.

Cleveland, Ohio—The question of building a third high-level bridge over the Cuyahoga River will be submitted to the voters of Cuyahoga County at the November election. The estimated cost of such a bridge, from plans already prepared by W. A. Stinchcomb, County Surv., is $3,700,000. Noted June 11.

Duncan Falls, Ohio—Bids will be received until Sept. 14, by the Board of Commissioners of Muskingum County, Zanesville, for the construction of a reinforced concrete viaduct at the west end approach of the Duncan Falls Bridge, Duncan Falls. It will be 200 ft. long with a 16-ft. roadway, and a 6-ft. sidewalk. Fred C. Werner is Clk. of Comrs.

Petersburg, Ind.—(Official)—Bids will be received until 2 p.m., Sept. 8, by the Board of Commissioners of Pike County for the construction of 13 steel bridges in various townships. John D. Gray is County Audr.

Winchester, Ind.—(Official)—Bids will be received until 11 a.m., Sept. 12, by the County Commissioners of Randolph and Wayne Counties for the construction of a county line bridge over Martindale's Creek on the boundary line between the two counties. Henry F. Wood, Winchester, is Audr. of Randolph County. L. S. Brown, Richmond, is Audr. of Wayne County.

Escanaba, Mich.—(Official)—Bids will be received until 10 a.m., Sept. 21, by the Board of County Road Commissioners of Delta County, 703 Ludington St., Escanaba, for the construction of an I-beam bridge about 343 ft. long, with a 16-ft. roadway, over the Escanaba River. R. P. Mason is County Engr.

Cairo, Ill.—Preliminary surveys have been begun for the construction of the bridge to be built over the Ohio River at

Cairo by the Mobile & Ohio R.R. W. H. Wells, Washington, D. C., Ch. Engr. of Const. of the Southern Ry., has charge of the work. Noted July 30.

Libertyville, Ill.—(Official)—Bids will be received until 2 p.m., Sept. 5, at the Town Hall, Libertyville, for the construction of the Oak Spring Bridge, Libertyville Township, Lake County. It will be of reinforced concrete, and is estimated to cost $4300. Charles E. Russell, Waukegan, is County Supt. of Highways.

Morris, Ill.—(Official)—All bids received Aug. 22 by the Commissioners of Grundy County for the construction of a bridge in Maine Township were rejected as too high, the lowest bid being $8287. New bids were received on Sept. 3. F. W. Stine is County Supt. of Highways. Noted July 23 and Aug. 20.

Quincy, Ill.—(Official)—Bids will be received until 2 p.m., Sept. 5, by Floyd V. Bell, County Supt. of Highways of Adams County, for the construction of the McCraney Creek Bridge, to be located between Payson and Richfield Townships, Adams County, and Barry and Hinderhook Townships, Pike County. Bids will be accepted for either a steel bridge, estimated cost, $5930, or for one of reinforced concrete, estimated cost, $6750.

✝Milwaukee, Wis.—(Official)—(A correction)—We are advised that the item in the issue of Aug. 20 stating that the Chicago & Northwestern Ry. had awarded the contract for the construction of a railway bridge at Milwaukee to Pellet & McMullen, Manitowoc, Wis., was an error, as the CLEARY-WHITE CONSTRUCTION CO., Chicago, Ill., has the contract for this bridge, and has sublet the pile-driving to the firm mentioned.

Carroll, Iowa—(Official)—Bids will be received until 2 p.m., Sept. 7, by the Board of Supervisors of Carroll County for the construction of 11 concrete culverts at an estimated cost of $9340, and for one steel bridge, estimated cost, $4000. George A. Poeppe is County Audr.

Keokuk, Iowa—(Official)—It is authoritatively stated that no contracts have been awarded, nor bids asked as yet for the reconstruction of the Keokuk and Hamilton Bridge across the Mississippi River between Keokuk and Hamilton, Ill. Ralph Modjeski, Orchestra Hall, Chicago, Engr. in Charge, is now at work upon the plans. Noted May 28, June 18 and Aug. 6.

Marshalltown, Iowa—The Supervisors of Marshall and Jasper Counties will build an inter-county bridge on the south line of Marshall County. It will be of reinforced concrete, about 50 ft. long and 16 ft. wide. The estimated cost is $4000.

Sioux City, Iowa—Press reports state that Sioux City has asked the State Highway Commission to prepare plans for the construction of a concrete bridge over the Big Sioux River, connecting Iowa and South Dakota. As planned, the bridge will be about 400 ft. long and 40 ft. wide. Sioux City will pay two-thirds of the cost, and Union County, South Dakota, the other third. Noted Dec. 4, 1913.

Concordia, Kan.—(Official)—Bids wil be received until noon, Sept. 24, by the Commissioners of Cloud County for the construction of six reinforced-concrete bridges, three in Colfax Township, one each in Nelson and Aurora Townships, and one between Nelson and Aurora Townships.

Erie, Kan.—(Official)—The Commissioners of Neosho County have rejected all bids received Aug. 17 for the construction of four bridges, two 20-, one 60- and one 75-ft. span. W. E. Neal is Clk. of the Comrs. Noted Aug. 13.

Manhattan, Kan.—Press reports state that bids will be received until Sept. 15 by the Board of Commissioners of Riley County for the construction of five concrete bridges. George H. Hungerford is County Clk.

Richland, Kan.—(Official)—Bids will be received until 1 p.m., Oct. 5, by the Commissioners of Morton County for the construction of a wood pile bridge, known as the Point of Rocks Bridge, over the Cimarron River near Elkhart. It will be 609 ft. long with a 16-ft. roadway.

Wichita, Kan.—(Official)—Bids will be received until noon, Sept. 21, by the Commissioners of Sedgwick and Sumner Counties for the construction of a reinforced-concrete bridge over Cowskin Creek on the county line. Edgar V. Moone, Wichita, is County Engr. of Sedgwick County. Noted Aug. 13.

Madison, S. D.—(Official)—Bids will be received until 10 a.m., Sept. 10, by the Commissioners of Lake County for the construction of two concrete bridges, one in Chester Township, and the other in Orland Township. M. D. McGillivray is County Audr.

✝Deer Dodge, Mont.—The Commissioners of Powell County received the following bids on Aug. 17 for the construction of two steel bridges: (a) 152-ft. bridge over the Big Blackfoot River; (b) 70-ft. bridge over the Little Blackfoot River. W. A. Adams & Co., (a) $8470, (b) $2980; Minneapolis Steel Co., (a) $9200, (b) $2900; J. F. HARRINGTON, (a) $6899 (awarded contract), (b) $1900; O. E. PEPPARD, (a) $6999, (b) $1900 (awarded contract); Security Bridge Co., (a) $8000, (b) $2800; Midland Bridge Co., (a) $7012, (b) $2620. Noted Aug. 6.

✝Corpus Christi, Tex.—The Commissioners of Nueces County have awarded Contracts Nos. 1 and 2 for the construction of the causeway across Nueces Bay to W. L. PEARSON & CO., Houston, at $88,290 and $47,000 respectively. List of bidders for Contract No. 1 noted Aug. 27.

Denison, Tex.—(Official)—Bids will be received until noon, Sept. 7, by the Mayor and City Council for the construction of a 6-ft. walkway bridge over the shops of the Missouri, Kansas & Texas Ry. Co., Denison. Alternate bids will be accepted for concrete slab- or wood plank flooring. T. McElvaney is Mayor. A. B. Clenny is City Engr.

Houston, Tex.—(Official)—Bids will be received until 2 p.m., Sept. 7, by the City Engineering Department for the construction of the Taylor St. Bridge. The estimated cost is $12,000. E. E. Sands is City Engr.

✝Fort Collins, Colo.—(Official)—The Commissioners of Larimer County have awarded the following contracts for bridge construction: To J. C. WHEDBEE, Fort Collins, at $3165 for five concrete bridges; to B. R. HOWE, Loveland, Colo., at $1372 for three concrete bridges; to the W. H. ROLLER CONSTRUCTION CO., Fort Collins, at $2565 for two steel bridges. James G. Edwards is County Engr. Noted July 30.

Aberdeen, Wash.—The Mayor and City Council are negotiating with the Oregon-Washington Ry. & Navigation Co. for widening the present walks of the railway bridge sufficiently to allow the passage of automobiles and other vehicles. The estimated cost of the work is $50,000, while an entire new bridge would cost about $150,000. Eugene France is Mayor.

Buckley, Wash.—The Commissioners of King County, Seattle, have rejected all bids for the construction of the piers for the Buckley Bridge as being above the estimate, and it is reported that the Comissioners of King and Pierce County plan to purchase the materials, and build the bridge by day labor. M. Roy Thompson is County Engr. of King County. Noted July 30 and Aug. 6.

Snoqualmie, Wash.—The lowest bid received by the Commissioners of King County, Seattle, for the construction of a bridge over Tokul Creek near Snoqualmie, was that of Charles G. Huber, Seattle, at $18,997. Noted Aug. 6.

Philomath, Ore.—The bridge of the Corvallis & Eastern R.R. over Mary's River, four miles east of Philomath, was entirely destroyed by fire recently. It was about 460 ft. long, and will be rebuilt at once. F. M. Siefer, Portland, Ore., is Ch. Engr.

✝St. Helen, Ore.—(Official)—The State Highway Commission, Salem, has awarded the contract for the construction of one 156-ft. bridge and three 125-ft. bridges on the Nehalem Highway, Columbia County, to the AMBROSE-BURDSAL CO., Portland, Ore., at $25,000. C. H. Purcell is State Bridge Engr. Noted Aug. 13.

Salem, Ore.—(Official)—No definite plans have been made yet by the Commissioners of Marion and Polk County for the construction of the proposed bridge between the two counties, but it is hoped to start the preliminary work during the winter. The present structure has been declared unsafe. Noted Aug. 6.

Vale, Ore.—Bids will be received until Sept. 7 by the Commissioners of Malheur County, for the construction of a 150-ft. steel bridge with two concrete abutments, over the Malheur River near Harper. John P. Houston is County Clk.

Chico, Calif.—(Official)—Bids will be received until 2 p.m., Sept. 10, by the Board of Supervisors of Butte County, Oroville, for the construction of a reinforced-concrete bridge, about 90 ft. long, over Chico Creek in Bidwell Park, near Chico. C. F. Belding is Clk. of the Bd.

✝San Jose, Calif.—(Official)—The Board of Supervisors of Santa Clara County has awarded the contract for the construction of a bridge over the Pajaro River between Santa Clara and San Benito Counties to the SECURITY CONSTRUCTION CO., Los Angeles, at $19,196. The bid of Mesmer & Rice was $19,635. Noted Aug. 13.

(Official)—Bids will be received until 11 a.m., Sept. 8, by the Board of Supervisors of Santa Clara County, for the construction of a reinforced-concrete bridge over Adobe Creek at Edith Ave., San Jose. Henry A. Pfister is Clk. of Supervisors.

✝San Luis Obispo, Calif.—The Board of Supervisors of San Luis Obispo County has awarded a contract for the construction of two reinforced concrete bridges to the MERCEREAU BRIDGE & CONTRACTING CO., Los Angeles, at $5909.

Walnut Grove, Calif.—The Board of Supervisors of Sacramento County has received bids for the construction of a bridge at Walnut Grove as follows: Jenkins & Wells, $77,650; Security Construction Co., $78,504; Ross Construction Co., $85,946; Mathews Construction Co., $88,000; Hyde, Harges & Co., $83,500; William Concannon, $89,900. E. F. Pfund, Sacramento, is Clk. of the Bd. Noted Aug. 6.

Woodbridge, Calif.—Plans are being prepared by F. E. Quail, County Surv. of San Joaquin County, for the construction of a steel bridge over the Mokelumne River at Woodbridge.

★Santo Domingo, Dominican Republic—(Official)—Bids will be received until 10 a.m., Oct. 15, by the Director General of Public Works for the construction of a steel highway bridge across the Ozama River at Santo Domingo City. See advertisement under Contracts To Be Let. Noted June 11.

WATER SUPPLY—IRRIGATION

Clinton, Mass.—Bids will soon be received for the purchase of $45,000 in bonds for the construction of the Heywood dam and basin.

Mansfield, Mass.—John Cashman & Sons, 247 Atlantic Ave., at $19,750 were low bidders for constructing the concrete reservoir at Foolish Hill.

✝Great Bend, N. Y.—(Official)—The contract for the construction of a gravity section concrete dam about 400 ft. long across the Black River for the Taggarts Paper Co. has been awarded to STEWART ENGINEERING CORPORATION, New York.

Lakewood, N. Y.—Bids will soon be received for making extensions to the water system. A pump house, 24x24 ft., two triplex pumps, 300 gal. capacity each, gasoline engine and piping will be required. Chapman & Graham, Jamestown, are the Engrs. S. C. Bryan is Pres. Village Bd.

Lesterahire, N. Y.—Bids will be received by the Water Works Commissioners, R. C. Lewis, Clk., until Sept. 14, for furnishing a 2000-gal. per minute cross compound crank and fly wheel condensing pumping engine. Noted July 23.

Liberty, N. Y.—(Official)—Bids will be received by the Board of Water Commissioners until 7 p.m., Sept. 10, for constructing a 500,000-gal. concrete reservoir. Robert Harby is Clk. Bd. Water Comrs.

Secaucus, N. J.—Bids will soon be received by the Board of Chosen Freeholders for concreting a reservoir at Snake Hill.

Irvington, N. J.—The Town Commission has authorized the Commissioner of Public Improvements to obtain data regarding the establishment of a municipal water system.

Rockaway, N. J.—The Town Council plans to increase the capacity of its water system.

Emlenton, Penn.—The Emlenton Water Co. will install an additional pump in the water works.

Kittanning, Penn.—At a recent election the citizens voted $112,000 in bonds the proceeds to be used for construction of a new water system and electric light plant. Noted Aug. 6.

Media, Penn.—Chester & Fleming, Engrs., Pittsburgh, have prepared plans for the installation of a $40,000 filtration plant.

Pittsburgh, Penn.—Bids wil be received by Robert Swan, Dir. of Pub. Wks., until 10 a.m., Sept. 4, for chimneys, economizers, flues and appurtenances for the Brilliant Pumping Station.

Round Hill, Va.—The citizens have voted $12,000 in bonds for the installation of a gravity water system. N. Wilson Davis, Harrisburg, is Engr.

Columbus, Ga.—John C. Cook, Chn. Bd. Water Comrs., has had plans prepared for the improvement of the water system. The mains will be extended, a reservoir and settling basin constructed. J. L. Ludlow, Winston-Salem, N. C., is Engr.

Ridgecrest, N. C.—The Town Directors contemplate obtaining a water supply from a nearby watershed.

Jacksonville, Fla.—The Arlington Water & Electric Co. has been organized with $10,000 capital. The company will lay water mains in Arlington Heights section. J. F. Zetzsche is Pres.

Elba, Ala.—The city will enlarge the water system by installing an electrically operated centrifugal pump, extending water mains and constructing a reinforced concrete reservoir. C. S. Allredd is Mayor. Noted Aug. 20.

+Tuscaloosa, Ala.—The contract for furnishing water pipe has been awarded to UNITED STATES CAST IRON PIPE & FOUNDRY CO., at $15,000, by the City Commissioners. Noted July 16.

Shreveport, La.—At an election held Aug. 20 the citizens voted $1,200,000 in bonds for the purchase of the Shreveport Water Works Co., or for the construction of a new system. Noted Feb. 26.

Coshocton, Ohio—Chester & Fleming, Pittsburgh, Penn., are preparing plans for the construction of a reservoir. Elmer Smith is Dir. Pub. Serv.

Sandusky, Ohio—Bids will be received by John J. Malter, Dir. of Pub. Serv., until noon, Sept. 22, for constructing a 42-in. intake pipe 1200 ft. long with concrete intake and crib and concrete well.

Gary, Ind.—At an election held Aug. 26, bonds for $76,000 were voted. The proceeds will be used for the construction of a water system for the Ridge Road District. W. J. Fulton is City Engr. Noted Aug. 6.

Lowell, Mich.—W. J. Sherman Co. has been retained by the village to appraise the privately owned water works with a view to municipal ownership.

+Saranac, Mich.—The contract for installing a water system has been awarded, according to press reports, to GRAND RAPIDS HYDRAULIC ENGINEERING CO., Grand Rapids, at $18,000. Noted July 2.

+Aurora, Ill.—(Official)—Bids were received Aug. 14 for drilling a well, as follows: S. B. GRIGER, 330 Old Colony Bldg., Chicago, at $18,500 (awarded contract); W. H. Gray & Bro., $19,998; and W. H. Cater Contracting Co., $18,900. Noted Aug. 6.

Leland, Ill.—The citizens contemplate spending $7000 for the construction of a water system.

Prospect Heights, Ill.—(Peoria Post Office)—The Village Council contemplates laying water mains estimated to cost $55,000. Albert E. Davidson is Village Pres.

Walnut, Ill.—The citizens contemplate constructing a new well and pump house and laying additional water mains. John F. Winger is Village Clk.

+Winnetka, Ill.—The contract for laying c.i. water pipe, installing fire hydrants and gate valves and vaults has been awarded to WILLIAM DAVIDSON, 738 Tenth St., Winnetka, at $5233.

+Appleton, Wis.—The contract for installing a 500,000-gal. steel tank and tower has been awarded to CHICAGO BRIDGE & IRON WORKS, Chicago, Ill., at $22,450.

Appleton, Wis.—Bids are being received according to press reports, by E. L. Williams, City Clk., for furnishing a motor driven centrifugal pump for the water works.

Fond du Lac, Wis.—A mile of new water main extensions has been ordered by the Water Commission. W. H. Masson is Supt.

Carroll, Iowa—The citizens contemplate spending $25,000 for constructing additions and making extensions to the water system.

Earlham, Iowa—See item under "Light, Heat and Power."

+Estherville, Iowa—(Official)—Contracts have been awarded to NORTHWESTERN EQUIPMENT CO., Minneapolis, Minn., at $23,918, for enlarging the water works and electric light plant and to CHICAGO BRIDGE & IRON WORKS, Chicago, Ill., at $7750, for building standpipe. Noted July 30.

+Chisholm, Minn.—The contract for installing a filter in the filtration plant has been awarded by the Water, Light, Power and Building Commission to PITTSBURGH FILTER CO., Pittsburgh, Penn., at $18,351. Noted June 18.

+Hibbing, Minn.—The contract for furnishing 21,000 ft. of 6-in. pipe and 5500 ft. of 4-in. c.i. pipe has been awarded by the Water and Light Board to UNITED STATES CAST IRON PIPE & FOUNDRY CO. Noted July 23.

+Keewatin, Minn.—The contract for constructing a reinforced concrete lining and cofferdam for the well has been awarded to JOHN AUSEHNO & CO., Keewatin, at $8352.

Ogema, Minn.—(Official)—Bids will be received by H. M. Day, Village Recdr., until 8 p.m., Sept. 4, for installing a water system.

+Triumph, Minn.—The contract for installing a water system has been awarded to the NATION CO., at $5100.

+Wabasha, Minn.—The contract for constructing a reservoir has been awarded to KIRSHER BROS., at $300,000.

Cottonwood Falls, Kan.—Harper & Stiles, Engrs., Gra Ave. Temple, Kansas City, Mo., have been retained to prepa plans for the installation of a filtration plant at the ci water works at an estimated cost of $10,000.

Armour, S. D.—Bids will be received by J. C. Perkinso City Audr., until 8 p.m., Sept. 8, for constructing a reinforced concrete septic tank.

Lemmon, S. D.—The city contemplates constructing water system with gravity pressure mains. W. O. Bush, Minneapolis, Minn., is Engr.

Mitchell, S. D.—(Official)—Bids will be received by Thoma Eastcott, City Audr., until 8 p.m., Sept. 11, for constructing a reinforced-concrete reservoir with a capacity of 750,000 gal.

Great Falls, Mont.—Plans have been prepared by M. L. Morris, City Engr., for laying a 12-in. c.-i. water main in Third Ave. South.

Atlanta, Tex.—Bonds for the construction of additions to the municipal water works system have been voted.

Dallas, Tex.—The Brazos River Irrigation Co. has been granted a permit by the State Board of Water Engineers to appropriate water from the Brazos River to water 10,200 acres of land. The plant is estimated to cost $225,000.

Floydada, Tex.—Bonds for $20,000 have been voted, the proceeds to be used for the installation of a water system. W. T. Montgomery is Mayor.

Granbury, Tex.—The City contemplates spending $20,000 for the construction of a water system.

Kerens, Tex.—Bonds for $21,500 for the improvement of the water system will be issued.

Livingston, Tex.—Bonds for $25,000 for the construction of a water system have been voted. Brown & Wilder, Houston, are the Engrs. Noted July 23.

Niles City, Tex.—(Fort Worth Post Office)—The installation of a water system to supply water to Niles City and Diamond Hill is contemplated.

Pecos, Tex.—The Council will improve the water system. The construction of a new standpipe will be included.

Runge, Tex.—A new municipal water system and electric light plant will be constructed at Runge.

Shamrock, Tex.—Bonds for $15,000 have been voted by the citizens, the proceeds to be used for the construction of a water system.

Bovill, Idaho—Bids will be received by the City Clerk until 8 p.m., Sept. 4, for constructing a water system. The estimated cost is $12,000. Noted Aug. 13.

North Yakima, Wash.—The water users of the Union Gap Canal have approved plans for the irrigation district, and have authorized the issuance of $90,000 in bonds, the proceeds to be used for making improvements to the distributing system. A half mile of canal will be cemented, and wooden flume through Union Gap will be replaced with cement or metal flume.

Seattle, Wash.—A. M. Firoito, at $41,285, was low bidder for laying water mains in East Harrison St. Other bidders were: L. Coluccio, $42,171; N. All, $44,460, and C. B. Kiehl, $46,770. Noted July 16.

The City Council contemplates laying water mains in Graham St., from Beacon Ave. to 42d St. South.

Astoria, Ore.—The City Council will extend the high-pressure water mains into Taylor's addition, at an estimated cost of $50,000.

+Eugene, Ore.—The contract for constructing a reservoir has been awarded by the Water Board to BARNEY & JOHNSON, Portland, at $7665. Noted Aug. 20.

Colton, Calif.—The installation of a new pump for the water system is under consideration. N. Davenport is City Clk.

Fort Bragg, Calif.—The water system will be purchased by the city. Improvements will be made.

Fullerton, Calif.—The Garden Grove Water Co. has been incorporated with a capital stock of $50,000, to install pumping plants and develop and sell water. The directors are H. A. Lake, J. D. Price, J. T. McElree, P. M. Jerman and J. A. Knapp.

+Pasadena, Calif.—The contract for furnishing 170 tons of pipe to the Water Department has been awarded to AMERICAN CAST IRON PIPE CO., at $6000.

Pomona, Calif.—The citizens contemplate purchasing the plant of the Consolidated Water Co. and making improvements. C. E. Bagley is City Engr.

+San Diego, Calif.—The contract for furnishing a deep well turbine pump for the Mission Valley wells has been awarded to STANDARD IRON WORKS, at $16,230.

Dundas, Ont.—Plans are being prepared by McPhee, Kelly & Darling, Engrs., Hamilton, for constructing a new storage reservoir and basin.

Ottawa, Ont.—Bids will soon be received for furnishing an auxiliary pump, electrically operated, for the pumping station.

+Canora, Sask.—(Official)—Contracts for constructing a water system have been awarded as follows: Laying water mains to FLANAGAN & MURPHY, at $10,011; pump house at springs to FLANAGAN & MURPHY, at $5345; steel water tower, to DOMINION BRIDGE CO., at $5744; furnishing c.i. water pipe and specials, to CANADIAN IRON CORPORATION, at $17,887; and for constructing well to FLANAGAN & MURPHY, at $4310. Noted July 30.

Calgary, Alta.—The ratepayers have authorized the expenditure of $8000 for the extension of water system. G. W. Craig is Engr.

Prince Rupert, B. C.—Plans are being prepared by the City Council for the construction of a reservoir to be located above the Thulmer River falls.

SEWERS

Fall River, Mass.—Bids will be received by James H. Kay, Chn. of the Reservoir Comn., until 10 a.m., Sept. 4, for constructing an intercepting drain near the west shore of Wattupa Ponds. H. K. Barrows, 6 Beacon St., Boston, is Consult. Engr.

+Bridgeport, Conn.—The Board of Contract and Supply has awarded a contract to the PIERCE MFG. CO. for constructing sewers in East Main St. and Linden Ave.

Hartford, Conn.—(Official)—The following are the bids received by the Board of Contract and Supply for constructing (d) Sect. D (e) Sect. E and (f) Sect. F of the Maple Ave. sewer system: H. Lambe, New Haven, (d) $19,445; (e) $24,553; (f) $20,742; O'Neil Bros., (d) $20,334; (e) $22,373; (f) $21,073; W. T. Ryan Construction Co., (d) $22,055; (e) $20,297; (f) $19,069; Amanno & Sullivan, (d) $25,854; (e) $21,775; (f) $20,173; Pierson Engineering & Construction Co., (d) $26,655; (e) $26,089; (f) $22,100; Moore & Co., Boston, Mass., (d) $26,906; (e) $24,317, (f) $28,994; John Mannochio & Co., (e) $24,631; (f) $23,713; B. Silvestri, (e) $26,876; (f) $22,279; Conti & Casciano, (e) $27,726; Petrossi Bros., (e) $32,937; (f) $27,794; Angelo Conti & Co., (f) $24,203. Roscoe N. Clark is City Engr. Noted Aug. 20.

+Gates, N. Y.—(Official)—The contract for constructing vitrified pipe sewers in Emerson and McNaughton Sts. has been awarded to MICHAEL FRANCIESCO, 466 Oak St., Rochester, at $5888. Other bids were: Petrossi Co., $8908; D. Sackioscua & Angelo, $8670; Whetmore, Rauber & Vicinus, $7169. Michael J. Magin is Town Clk. Noted Aug. 27.

Gloversville, N. Y.—Bids received by the City Clk., on Aug. 18, for constructing sanitary sewers, were rejected. The work will be done by day labor. H. J. Hanner is City Engr. Noted Aug. 13.

+Rochester, N. Y.—Edward B. Foote, Rochester, at $4300 submitted lowest bid to the State Hospital Commission for constructing the sewage pumping station and the American Laundry Machinery Co., New York, N. Y., at $5298, submitted lowest bid for furnishing laundry equipment. Noted Aug. 6.

Syracuse, N. Y.—(Official)—The contract for constructing the storm water sewer in the First and Second wards will not be awarded, as the city bonds for this work cannot be disposed of. H. J. Hamlin is Secy. of the Syracuse Intercepting Sewer Bd. Noted Aug. 6 and Aug. 27.

+Tonawanda, N. Y.—The contract for constructing the sewer system in the Highland Ave. District has been awarded to HAGER & GEORGE, Newark, N. J., at $23,500.

East Orange, N. J.—(Official)—Bids will be received until 8 p.m., Sept. 14, for constructing a sewer drain in Fourth Ave. and North 19th St. The work requires 380 ft. 33-in. reinforced-concrete pipe, 270 ft. 30-in. reinforced-concrete pipe, 250 ft. 24-in. vitrified pipe, 320 ft. 18-in. vitrified pipe, 275 ft. 15-in. vitrified pipe, 430 ft. 12-in. vitrified pipe, 265 ft. 8-in. vitrified pipe, 8 manholes, 17 catch basins. Lincoln E. Rowley is City Clk.

Elizabeth, N. J.—The City Council has commissioned James C. Harding, 170 Broadway, New York, N. Y., to prepare plans for repairing the intercepting sewer. The estimated cost is $25,000.

North Plainfield, N. J.—A sewer system will be constructed by the city, to cost about $300,000.

Canonsburg, Penn.—The Council will install a sanitary sewer system and sewage treatment plant.

Harrisburg, Penn.—The city will construct sewers in Cumberland, Cameron and Monroe Sts., at an estimated cost of $6000. M. B. Cowden is City Engr.

Montgomery, Penn.—The State Department of Health has approved of plans for the installation of a sewer system at Montgomery.

Parkesburg, Penn.—The citizens of Parkesburg will construct a sewer system and sewage treatment plant.

Washington, D. C.—(Official)—Bids will be received by the Commissioners, District of Columbia, until 2 p.m., Sept. 8, for constructing about 6250 cu.ft. of pipe sewer, 6- to 24- in. Oliver P. Newman, Frederick L. Siddons and Chester Harding are the Comrs.

Charleston, W. Va.—(Official)—Bids will be received by the Board of Affairs until 2 p.m., Sept. 10, for constructing a sewer system. G. S. Brown, Lowenstein Bldg., Charleston, is City Engr.

Dunbar, W. Va.—The Dunbar Land Co. will construct about 5000 ft. of 24-in. pipe sewers and about 15,000 ft. of lateral sewers.

Manning, S. C.—The Board of Sewerage Commissioners has retained J. Newton Johnston, Florence, S. C., to prepare plans for a sanitary sewer system. Noted Aug. 6.

+Anniston, Ala.—The contract for extending the sewer system has been awarded to GEORGE G. ODIORNE, Anniston, at $8031. J. D. Hunter is Engr.

Elba, Fla.—The city will spend $11,000 in improving its sewer system.

Owensboro, Ky.—The town contemplates the construction of a sewer system in the southwestern section of the town.

Bucyrus, Ohio—Bids will be received by the city until Sept. 8, for constructing a sewer in East St. F. L. Neiderheiser is City Engr.

Cambridge, Ohio—Bids will be received until Sept. 10, by the Director of Public Service for sewer construction and paving, estimated to cost $50,000. Earl M. Cosgrove is City Engr.

Chillicothe, Ohio—The City Council has decided to complete the Honey Creek storm sewer at an estimated cost of $23,500. H. M. Redd is City Engr.

Coshocton, Ohio—Bids will be received by Elmer Smith, Dir. of Pub. Ser., until Sept. 8, for constructing sanitary sewers in various streets. Noted Aug. 27.

Fostoria, Ohio—The State Board of Health has approved of plans for a sewage disposal plant to cost about $17,000. Bids for the work will soon be asked. Charles Latshaw is City Engr.

Girard, Ohio—See item under Streets and Roads.

Lebanon, Ohio—(Official)—The city has commissioned the W. J. Sherman Co., The Nasby, Toledo, Ohio, to prepare plans for a sewage plant.

Port Clinton, Ohio—Bids will be received by William H. Williamson until Sept. 23, for constructing sewers in Ferry and Canal Sts.

Struthers, Ohio—Bids will be received by Jonah Richards, Village Clk., until noon, Sept. 16, for constructing a storm and sanitary sewer in Park Ave.

West Carrollton, Ohio—(Official)—The W. J. Sherman Co., The Nasby, Toledo, Ohio, has been commissioned by the city to prepare plans for a sanitary sewer system.

+Mounds, Ill.—The contract for constructing the sewer system has been awarded to the WILLIAM RILEY CONSTRUCTION CO., St. Louis, Mo., at $9641. Noted Aug. 6.

Peoria, Ill.—Specifications for the proposed sewer system in a section of the eighth ward have been completed. The estimated cost is $234,556. Leonard Jeffries is City Engr. H. E. Beasley, Peoria, is Consult Engr.

Milwaukee, Wis.—Bids will be received by the Sewerage Commission, City Hall, until Sept. 10, for constructing an electrolytic sewage treatment plant. J. F. Young is Secy.

+New London, Wis.—The contract for constructing sewers in three streets has been awarded by the Common Council to R. MIERSWA & SONS. Noted Aug. 6.

Sac City, Iowa—Bids will be received by W. F. Weary, City Clk., until 8 p.m., Sept. 7, for sewer construction in Hobbs and 13th Sts.

Austin, Minn.—Bids will be received by the Common Council, until 8 p.m., Sept. 4, for constructing a storm sewer in Kenwood Ave. The work requires about 3000 ft. of 10-, 12-, 15- and 18-in. pipe. Oscar F. Weissgerber is City Engr.

Virginia, Minn.—Lawrence & McCann, Eveleth, Minn., at $78,868, submitted the lowest bid to the City Council for constructing a septic tank.

Warroad, Minn.—(Official)—Bids received recently by the Village Clerk, for constructing sewers and sewage disposal plant, have been rejected. Noted July 2 and Aug. 6.

+Billings, Mont.—The contract for constructing sanitary sewers has been awarded by the City Council to E. LINDSTROM, Billings, at $19,518. Noted Aug. 13.

Carthage, Mo.—F. B. Newton, City Engr., is preparing plans for a sewer in the eastern section of the city, to cost about $25,000.

+Dallas, Tex.—The contract for constructing sewers has been awarded by the City Council to J. D. WINSLETT, JR., at about $25,000. The work requires about 2700 lin.ft. of 15-in., 30,500 lin.ft. 18-in., 10,000 lin.ft. of 8-in. and 8500 ft. 6-in. pipe.

Laredo, Tex.—The citizens have voted $24,000 in bonds for the construction of storm sewers.

+Sapulpa, Okla.—The contract for extending the sewer system from Thompson St. to Rock Creek, has been awarded to the W. J. Kennedy Co., Oklahoma City, at $59,850.

+Seattle, Wash.—The contract for constructing sewers in 18th Ave. has been awarded to C. CRISTOFARO, at $9208. Noted Aug. 27.

Vancouver, Wash.—The City Council has decided to construct sewers in various streets.

Astoria, Ore.—The lowest bid received by the City Council for constructing the sewer system was that of the James Kennedy Construction Co., Fargo, N. D., at $24,661. Noted July 30.

Portland, Ore.—Bids for constructing the first section of the Monteville sewer system were received by the City Council as follows; monolith concrete: John F. Shea, Portland: $104,188; Jeffery & Bufton, $104,725; James Kennedy Construction Co., $105,112; Giebisch & Joplin, $105,446; Consolidated Contract Co., $109,495; concrete pipe construction; Giebisch & Joplin, $95,124. Noted July 23.

The City Council has decided to construct sewers in East 74th St., Thornburn Ave. and other streets, at an estimated cost of $8000. Vitrified pipe or concrete sewers will be laid.

San Bernardino, Calif.—Bids will be received by the City Council until Sept. 21, for constructing sewers in K and Tenth Sts.

+Stockton, Calif.—The contract for constructing sewers in the Southeastern section of the city has been awarded by the City Council to F. C. McINTIRE, at $12,112.

London, Ont.—The City Council has decided to construct a sewage disposal plant to cost about $75,000. Willis Chapman, Mail Bldg., Toronto, is preparing plans.

Wingham, Ont.—The Town Council contemplates constructing 8-in. tile sewers in Edward and John Sts. J. F. Groves is Town Clk.

GARBAGE

New York, N. Y.—(Official)—Bids were received by J. T. Fetherston, Comr. of Street Cleaning, Municipal Bldg., Borough of Manhattan, for removing the snow and ice during the winter season of 1914-15.

(Borough of Manhattan)—Snow Contracting Co., 47c. per cu.yd.; Soraci Contracting Co., 64c. per cu.yd. for division by districts, Snow Contracting Co., Dist. No. 1, 48c.; Dist. No. 2, 50c.; Dist. No. 3, 48c.; Soraci Contracting Co., Dist. No. 1, 49.5c.

(Borough of Brooklyn)—Rosenthal Engineering Contracting Co., 35.4c. per cu.yd.; Robertson Constuction Co., 39.7c.; Newman and Carey Co., 39.9c.; for division by districts, Rosenthal Engineering Contracting Co., Dist. No. 2, 29.7c.; Brooklyn Alcatraz Asphalt Co., Dist. No. 4, 33c.; W. H. Sherman, Dist. No. 4, 133.9c.; Thomas Calandriello, Dist. No. 2, 34.5c.; Norton & Gorman Contracting Co., Dist. No. 1, 39c.; District No. 4,

37.5c.; Newman & Carey Co., Dist. No. 1, 39.9c.; Dist. No. 2, 33.5c.; Dist. No. 3, 39.9c.; Dist. No. 4, 39.9c.; Robertson Construction Co., Dist. No. 1, 41.7c.; Joseph J. B. Le Mont, Dist No. 4, 42.5c.; Harold B. Christensen, Jr., Dist. No. 1, 48c.; Dist. No. 2, 47c.; Dist. No. 3, 43c.; Dist. No. 4, 40c.

(Borough of Bronx)—County Contracting Co., 39c. per cu.yd.; Augustus Rogers, 39.9c.; Daniel Rogge, 41.85c.; Harold B. Christensen, Jr., 42c.; Thompson Bros., Inc., 49c.; Soraci Contracting Co., 50c. Bids were opened Aug. 21. Noted Aug. 2.

Okmulgee, Okla.—Bonds for $5000 have been voted, the proceeds of which will be used for the installation of a municipal incinerating plant.

STREETS AND ROADS

✚Boston, Mass.—The contract for constructing 4200 lin.ft. of state road and a bridge in Uxbridge has been awarded to T. J. QUINN, Ashton, R. I., at $10,350. Other bids were: Horne-Lowe Contracting Co., Millbury, $11,367; N. E. Custer Co., Worcester, $11,575; O. W. Ruckle, Providence, R. I., $11,680; Capito & Giovanni, $11,991; Newell & Brock, Uxbridge, $12,108; F. E. Ellis, Melrose, $12,913; H. J. Maguire, Worcester, $13,199. Noted Aug. 20.

Bids will be received by the Department of Public Works, until Sept. 8, for artificial sidewalks on various streets in West Roxbury District. L. K. Rourke is Comr.

Holyoke, Mass.—Bids will be received until 2 p.m., Sept. 4, by the Board of Public Works, for paving a section of Cabot St. with vitrified brick or asphalt blocks.

Pittsfield, Mass.—The City Council contemplates an expenditure of $25,000 for paving West St. with vitrified brick. J. P. Moore is Mayor.

✚Hartford, Conn.—Contracts for state road work, bids for which were received by the State Highway Commissioner, Aug. 18, have been awarded as follows:

Middlebury Township, a section of gravel construction on the Southbury Road to LOUIS LOUGHI & BRO., Litchfield, $6796.

Cromwell Township, a section of trap rock macadam construction on the Newfield Road, to STAFFORD & MATHER, Hartford, at $8877.

City of Norwalk, a section of brick and amiesite pavement on the Westport Road to the CHARLES T. EASTBURN CO., Mt. Vernon, N. Y., at $5958.

Middletown Township, a section of trap road macadam on the Newfield Road, to STAFFORD & MATHER, Hartford, at $8000.

Norfolk Township, a section of graded construction on the Torrington Road, to JOHN DE MICHIEL & BRO., Torrington., at $6924. Noted Aug. 6 and 27.

✚Herkimer, N. Y.—The contract for paving a portion of Smith St. has been awarded to the WARREN BROS. CO., Boston, Mas.

Bloomfield, N. J.—Bids were received, Aug. 17, by R. F. Davis, Town Clk., for paving North 18th St., Sect. A, (a) bitulithic, (b) brick, (c) asphalt block: Newark Paving Co., (a) $32,208, (b) $31,751, (c) $40,091; Barber Asphalt Paving Co., (c) $37,741; Northern Construction Co., (a) $30,587; Cestone Construction Co., (a) $31,742, (b) $32,771, (c) $36,313; Standard Bitulithic Co., (a) $32,262; W. Alworth & Son, (a) $33,062, (b) $31,806, (c) $33,062; Hastings Pavement Co., (a) $38,346.

Sect. B: Standard Bitulithic Co., $11,410; Northern Construction Co., $11,461; W. Alworth & Son, $11,731; Cestone Construction Co., $11,241. Noted Aug. 13.

Jersey City, N. J.—Bids will be received by the Boulevard Commissioners, Court House, for repaving Jersey City and Weehawken sections of the Hudson Blvd. with bituminous concrete laid on macadam or stone foundation.

Newark, N. J.—According to press reports bids will be received by the Board of Street and Water Commissioners until Sept. 10 for paving Avenue L with oblong granite block and repaving Ferry St. with redressed granite.

Newton, N. J.—The Town Council plans to pave Spring St. with concrete.

Perth Amboy, N. J.—Bids will be received by the City Council, until Sept. 9, for paving New Brunswick Ave. with vitrified brick. G. M. Adair is St. Comr.

✚Ridgefield Park, N. J.—A contract for paving has been awarded to A. W. GILL, Spring Valley Ave., Hackensack, at $25,626.

Roselle Park, N. J.—Bids have been received for paving Walnut St., Locust St. and Sheridan Ave., from T. Foster Callahan, $32,980; Humphrey & Bentley, $35,240, W. M. Weldon, $35,031.

Clairton, Penn.—Bids will be received by H. M. Gates, Clk. of the Council, until 8 p.m., Sept. 7, for constructing 15,000 sq.ft. of concrete sidewalk.

Connellsville, Penn.—(Official)—Bids will be received by John L. Gans, Pur. Agt., until 8 p.m., Sept. 14, for grading, curbing and paving Baldwin Ave. and Ashman Ave.

Kingston, Penn.—(Official)—Bids will be received by W. J. Williams, Secy. of the Borough until 7 p.m., Sept. 8, for grading, curbing and paving several streets.

Lewistown, Penn.—(Official)—Bids will be received by J. Harry Saxton, Secy. of the Borough, until 7.30 p.m., Sept. 7, for grading and paving South Dorcas St. and South Main St. with vitrified brick.

Mount Union, Penn.—(Official)—Bids will be received by the Borough Council, until Sept. 17, for curbing, grading and paving Shirley and Jefferson St.

Philadelphia, Penn.—Bids were received, Aug. 18, by the Highway Bureau, for completing the Northeast Blvd., as follows: Barber Asphalt Paving Co., Land Title Bldg., $369,294; Edward L. Barber, $433,153; Eastern Paving Co., $435,829; Hassam Paving Co., $455,631. Noted Aug. 6.

✚Pittsburgh, Penn.—(Official)—A contract for concrete sidewalks and foundations for roadway pavements on the Bloomfield Bridge and its approaches has been awarded to M. O'HERRON CO., First and McKean St., at $19,879. Noted Aug. 13.

Pittsburgh, Penn.—(Official)—Bids will be received by R. J. Cunningham, County Controller, until 10 a.m., Sept. 1 for improving Routes A and B of the Ingomar and Perrysville Road.

Taylor, Penn.—The City Council has approved paving Union St. with crushed stone tarred. The estimated cost is $9600.

✚Wilmington, Del.—Contracts have been awarded for constructing 3.462 miles of road from Boyd Corner to the limits of St. Georges Township, to STEWART & DONOHUE, Wilmington, at $32,786, and a road leading from Blackbird to Blackbird Station, to JOHN A. CLARK, at $9000.

✚Baltimore, Md.—Contracts have been awarded by the State Roads Commissioners to M. J. GROVE, Lime Kiln, Md., for the construction of one mile of road near Middletown, at $9090; to LUCK CONSTRUCTION CO., Roanoke, Va., at $36,619, for the construction of 6.28 miles of road from St. Mary's City to Ridge, at $36,619, and at $24,258, for 9.81 miles of road from Leonardtown to Great Mills; to HUMPHREY & BENTLEY, Elizabeth, N. J., for the construction of 5.89 miles of road from Cambridge to Church Creek, at $59,103; to J. WINSTON CO., New York, for 7.7 miles of road from Licking Creek to Hancock, at $101,975; to V. FULLER BROS., Frostburg, Md., for the construction of 1.46 miles concrete road from Carlos Junction to Midland, at $20,064, and to BROTHEMARKLE & UHL, Lonaconing, Md., for 2.7 miles of concrete road from Barton to Phœnix Hill, at $41,646.

✚The contract for paving portions of Centre, Courtland and St. Paul Sts. has been awarded to PATRICK F. REDDINGTON & SONS, at approximately $14,004.

Salisbury, Md.—Bids will be received by J. T. Parsons, City Clk., until 8 p.m., Sept. 7, for paving 12,500 sq.yd. with vitrified brick, bituminous macadam or bitulithic pavement on a 5-in. concrete base. P. S. Shockley is Engr.

Washington, D. C.—Bids were received as follows, Aug. 28, by the Commissioners of the District of Columbia, for laying concrete sidewalks in the District during the period ending June 30, 1915: E. G. Gummel, Class A, 96c.; Class B, $1.16. Cranford Paving Co., A, $1.11; B, $1.29. Harper & Voight Co., A, $1.63½; B, $1.23½. Warren F. Brenizer Co., A, 97c.; B, $1.18. Bernard S. Boyle, Lanford, Penn., A, $1.50. Also on Aug. 31, for grading and improving suburban streets and avenues in the District for the period ending June 30, 1915: (1) grading, (2) setting 6x20-in. granite or bluestone curb, (3) setting 8x8-in. granite curb, (4) paving or repaving cobble or granite block gutters, (5) paving vitrified brick gutters on gravel base, (6) paving vitrified brick gutters on 3-in. concrete base, (7) constructing concrete curb with concrete gutter, (8) constructing concrete curb without concrete gutter, (9) constructing 18-in. concrete gutter, (10) constructing 24-in. concrete gutter, (11) constructing concrete roadway, (12) furnishing and hauling bank gravel for roadway: Warren F. Brenizer Co., (1) 39c. per cu.yd., (2) 33c. per lin.ft., () 35c. per lin.ft., (4) 38c. per sq.yd., (5) 60c per sqyd., (6) 80c. per sq.yd., (7) 80c. per lin.ft., (8) 49c. per lin.ft., (9) 31c. per lin.ft., (10) 38c. per lin.ft., (11) 83c. per sq.yd.; E. G. Gummel, (1) 37c., (2) 29c., (3) 35c., (4) 39c., (5) 70c., (6) $1.15, (7) 95c., (8) 55c., (9) 45c., (10) 55c., (11) 90c., (12) $1.25 per cu.yd.; G. B. Mullen, (1) 43c., (2) 30c., (3) 37c., (4) 40c., (5) 74c., (6) $1.50, (7) 53c., (8) 50c., (9) 40c., (10) 45½c., (11) 94c., (12) 99c.; Cranford Paving Co., (1) 57c., (2) 30c., (3) 36c., (4) 45c., (5) 60c., (6) $1.10, (11) 93c.; Harper & Voight Co., (1) 31c., (2) 35c., (3) 35c., (4) 43c., (5) 69c., (6) $1.19, (7) curb alone, 50c., (8) 55c., (9) 31c., (10) 42c., (11) 82c., (12) 70c.

✚Richmond, Va.—The contract for paving Broad St. has been awarded to the WASHINGTON ASPHALT BLOCK & TILE CO., at $50,000.

✚A contract for paving portions of Ryland and Meadow St. has been awarded to the ATLANTIC BITULITHIC CO., at approximately $10,000.

Mooresville, N. C.—No contract was awarded on bids received Aug. 24 for 9000 yd. of bituminous paving with a concrete base and curb. The work has been postponed. Noted Aug. 6.

Brooksville, Fla.—Bids will be received by the County Commissioners, until Sept. 14, for the sale of $300,000 in bonds for highway improvements.

Clearwater, Fla.—An election will be held Oct. 6 to vote on the proposition of issuing $15,000 in bonds for additional street paving.

Luverne, Ala.—Bids will be received by the Judge of the Probate Court, until Sept. 8, for the sale of $50,000 in road and bridge bonds.

✚Marion, Ala.—A contract for completing a state-aid road has been awarded to L. C. ROWLINSON, Grand View, at $10,074. Other bids were: W. H. England, Marion, $10,980; D. R. Cook, Montgomery, $11,757; Dixon Smith Construction Co., $11,479.

Corinth, Miss.—Bids will be received by the Board of Supervisors of Alcorn County, until Sept. 9, for constructing roads.

✚Nashville, Tenn.—The contract for paving Second St. with concrete lug blocks has been awarded to the SOUTHERN BITULITHIC CO. at approximately $10,000.

✚Paintsville, Ky.—A contract for paving with vitrified brick has been awarded to SAMUEL COLLIER at $23,000.

Arlington Heights (Cincinnati Post Office), **Ohio**—Bids will be received by A. J. Orth, Village Clk., until Sept. 8, for improving Carthage and Elliott Ave.

Brewster, Ohio—(Official)—Bids will be received by L. S. Lash, Village Clk., until noon, Sept. 8, for grading certain streets.

Cincinnati, Ohio—S. M. Tanner, 103 West Corry St., was low bidder on grading Sect. 3 of the Bloody Run Parkway at 31½c. per cu.yd. Approximately 107,000 cu.yd. are to be graded. Noted Aug. 20.

+Cincinnati, Ohio—The contract for paving Jefferson Ave. with asphalt and granite has been awarded to the KIRCHNER CONSTRUCTION CO., 221 West Ninth St., at $32,526. Noted Aug. 6.

(Official)—Bids will be received by the Board of County Commissioners, until noon, Sept. 25, for improving a part of the Princeton Pike, in Springfield Township. Albert Reinhardt is Clk.

Girard, Ohio—The City Council contemplates improving West Liberty St., paving Prospect St., and constructing a 24-in. storm sewer in South Market St.

+La Rue, Ohio—The contract for paving Front St. with brick has been awarded to BREWER, TOMLINSON & BREWER, Chillicothe, at approximately $26,000. Noted July 9 and Aug. 6.

+Lima, Ohio—The contract for paving Haller St. has been awarded to HENRY S. ENCK at $6153.

Liverpool, Ohio—The City Council contemplates paving and curbing a number of streets.

London, Ohio—Bids will be received by J. W. Byers, Village Clk., until Sept. 14, for grading and paving Walnut St.

+Lorain, Ohio—The contract for draining, grading and paving Hamilton Ave. has been awarded to the OHIO ENGINEERING CO., at $9000.

Marble Cliff, Ohio—Bids will be received by C. Newhouse, Village Clk., until Sept. 19, for improving Cambridge Place Ave. by grading, draining and paving with macadam.

+Marysville, Ohio—The contract for grading, draining and macadamizing the Vansant and Beaver Road in Clairborne Township has been awarded to C. S. GRUNDEL, at $9644. Noted Aug. 6.

Napoleon, Ohio—Bids will be received by Harry C. Rich, Village Clk., until Sept. 10 for improving Hobson St.

+Springfield, Ohio—The contract for paving Madison Ave., from Woodlawn Ave. to Sycamore St., has been awarded to W. F. PAYNE, at $27,347. Noted Aug. 13.

Zanesville, Ohio—Bids will be received by A. J. Voll, Clk. of the Bd. of Pub. Ser., until Sept. 8, for improving Jefferson St. from Woodlawn Ave. to Muskingum Ave.

Indiana—(Official)—Bids will be received as follows for road improvements in Indiana:

Delphi, until noon, Sept. 8, by the Commissioners of Carroll County for constructing four macadam roads in Deer Creek Township. M. G. Haun is Audr.

Madison, until 1:30 p.m., Sept. 8, by the Commissioners of Jefferson County for constructing two gravel roads in Hanover Township and one in Republic Township. A. M. Toff is Audr.

Brazil, until 10:30 a.m., Sept. 8, by the Commissioners of Clay County for constructing a road in Posey Township. E. A. Staggs is Audr.

Rockville, until 11 a.m., Sept. 8, by the Commissioners of Parke County for constructing five gravel roads. James E. Elder is Audr.

Bloomfield, until 2 p.m., Sept. 1, by the Commissioners of Greene County for constructing a macadam road in Taylor Township. C. H. Jennings is Audr.

Winamac, until noon, Sept. 8, by the Commissioners of Pulaski County for constructing roads in Monroe and Tippecanoe Townships. W. E. Munchenburg is Audr.

Mt. Vernon, until 2 p.m., Sept. 8, by the Commissioners of Posey County for constructing a road in Harmony Township. Joseph R. Haines is Audr.

Shelbyville, until 11 a.m., Sept. 9, by the Commissioners of Shelby County for constructing a road in Van Buren Township. F. W. Fagel is Audr.

Lafayette, until 10 a.m., Sept. 9, by the Commissioners of Tippecanoe County for constructing a gravel road in Washington Township. George W. Baxter is Audr.

Bloomfield, Ind.—(Official)—Bids will be received by John W. Johnson, Treas. of Greene County, until noon, Sept. 7, for the sale of $52,300 in bonds for highway improvements.

Gary, Ind.—Bids will be received until Sept. 21, by the Board of Public Works, for the improvement of Alley 2, East Sect. I, 4001 sq.yd. brick pavement, 4490 lin.ft. of curb, 1731 cu.yd. grading, 986 sq.yd. sidewalk, etc. W. J. Fulton is City Engr.

Goshen, Ind.—(Official)—Bids will be received by W. A. Gray, Treas. of Elkhart County, until Sept. 8, for the sale of $102,000 in bonds for highway improvements.

Hartford City, Ind.—(Official)—Bids will be received by G. H. Newbauer, Treas. of Blackford County, until Sept. 7, for the sale of $6940, $39,000 and $60,000 in highway bonds.

Scottsburg, Ind.—(Official)—Bids will be received by the Town Trustees, until 1 p.m., Sept. 8, for constructing 1966 cu.yd. of vitrified brick pavement.

Southport, Ind.—(Official)—Bids will be received by the Town Trustees, until 7:30 p.m., Sept. 7, for constructing approximately 1000 ft. concrete sidewalks.

+Springfield, Ill.—The Illinois State Highway Commission awarded contracts, Aug. 19, for highway work as follows: Crawford County, Sect. B, Route 3, to F. W. McELROY, Robinson, $18,990; Douglas County, Sect. B, Route 11, and Sect. A, Route 3, to GOGGIN CONSTRUCTION CO., Arcola, at $5300 and $9100, respectively; Adams County, Sect. A, Route 5, to CAMERON, JOYCE & CO., Keokuk, Iowa, $13,899; Jersey County, Sect. A, Route 2, to M. M. HANES, Jerseyville, $4475; Clay County, Sect. A, Route 5, to F. C. NICHOLS, Flora, $4197; McHenry County, Sect. B, Route 11, to LOGAN & GIERTZ CONSTRUCTION CO., Elgin, $2950; McHenry County, Sect. A, Route 1, to H. M. GARVEY, 3721 Cottage Grove Ave., Springfield, $4736. Noted Aug. 6.

+The contract for paving 11th St. from South Grand Ave. to Ash St. has been awarded to HENRY NEICH & SON.

+Beaumont, Tex.—A contract for constructing a road connecting the Mansfield Ferry with the shell road has been awarded to JESSE W. STUART, at $11.500.

Waukegan, Ill.—(Official)—Bids will be received by the Board of Local Improvements, until 8 p.m., Sept. 7, for paving Washington St. The estimated cost is $42,000. M. J. Douthitt is City Engr.

+Cudahy, Wis.—The contract for paving Packard and Lipton Ave. has been awarded to D. M. SNEDDON & CO.

Madison, Wis.—(Official)—Bids will be received by O. S. Norsman, City Clk., until 2 p.m., Sept. 23, for improving Main St. from Carroll St. to Henry St., Washington Ave. from Broom St. to Bedford St., Frances St. from State St. to University Ave.

Oconto, Wis.—The City contemplates paving Main, McDonald, Park, Superior, Huron and Congress St.

+Reedsburg, Wis.—A contract for constructing 13,750 sq. yd. brick block paving with curbs and gutters has been awarded to SWEENEY BROS.

Sheboygan, Wis.—The Board of Public Works is receiving bids for grading and paving Indiana ave. from South 13th to South 17th St. with concrete.

+Erie, Kan.—The contract for rebuilding the rock roads east and north of Chanute was awarded Aug. 6 to JOSEPH RHODES, Humboldt.

Fort Scott, Kan.—C. O. Tallman, Comr. of Street and Pub. Impvt., will soon receive bids for vitrified brick paving on concrete base, also curbing and guttering of Wall St. from Broadway to Washington.

+Neodesha, Kan.—A contract for paving four blocks and alley was awarded, Aug. 24, to GREEN & CULLEN, Independence, Mo., at $37,925.

+Parsons, Kan.—A contract for paving with asphaltic concrete and curbing with carthage stone has been awarded to A. JAICKS CO., 115 American Bank Bldg., Kansas City. Noted July 16.

Sioux Falls, S. D.—Bids will be received by Walter C. Leyse, City Audr., until Sept. 14, for paving Ninth and Tenth St. and Summit Ave.

Ballinger, Tex.—The issuing of about $100,000 of bonds for the construction of good roads in different precincts of Runnels County is under consideration.

+Dallas, Tex.—Contracts have been awarded for paving parts of nine streets with wood block to the TEXAS BITULITHIC CO., and for three blocks with rock asphalt to the STANDARD ENGINEERING & CONSTRUCTION CO. Noted July 30.

+Houston, Tex.—Contracts have been awarded for paving Webster Ave. to the EUREKA PAVING CO., $14,400; Avondale Ave., to the UVALDE ROCK ASPHALT CO., $15,800; Dallas St., to the EUREKA PAVING CO., $15,000. Noted July 30.

San Antonio, Tex.—The San Antonio Automobile Club will construct an automobile toll road from a point on the Culebra Road to the Medina Dam. 6½ miles. The proposed road will cost about $35,000, and will shorten the distance between San Antonio and Medina Dam five miles.

Velasco, Tex.—Bids will be received by the Commissioners of Brazoria County, until Sept. 5, for constructing 12 miles of hard-surface roads in District No. 8.

Salt Lake City, Utah—The Board of City Commissioners has rejected all bids received for resurfacing Sixth East St. with bituminous macadam. Bids will be called for later.

Prescott, Ariz.—Bids will be received by the Supervisors of Yavapai County, until Sept. 16, for improving Section B of the Prescott-Flagstaff Highway.

Tuscon, Ariz.—Bids will be received by the Board of Supervisors until 2 p.m., Sept. 16, for constructing about seven miles of highway. Bertram L. Hitch is Clk.

Bremerton, Wash.—According to press reports, the City Council proposes to pave Washington Ave. and High St.

+Hoquiam, Wash.—The contract for improving Pacific Ave. has been awarded to PUGH & ARENZ, at $18,420.

The City Council has adopted an ordinance providing for the improvement of a section of Broadway with a rock and gravel roadway.

+Leavenworth, Wash.—A contract for street improvement in District No. 8 has been awarded to J. C. MASSIE, at $9518.

+Seattle, Wash.—The contract for constructing the Mercer Island Road has been awarded to FIRSCH & GLASS, at $51,491. Noted Aug. 6.

Bids will be received by the County Commissioners, until Sept. 8, for paving East 65th St.

+The contract for paving Ewing St. has been awarded to the SPARGER CONCRETE CO., at $168,041.

+The contract for constructing the Redmond-Snoqualmie Road has been awarded to the NETTLETON, BRUCE & ECHBACH CO., at $59,217. Noted Aug. 6.

+Astoria, Ore.—The Clatsop County Court has awarded a contract for the clearing and grading of nine miles of highway from Necanicum to the Tillamook County line to JEFFREY & BUFTON, Portland, Ore., at $56,000.

Eugene, Ore.—The City Council has passed an ordinance providing for the paving of Sixth Ave. West from Olive to Blair St.

+Portland, Ore.—The City Commission has awarded contracts for street paving as follows: Asphaltic concrete on Patton Ave., to the OREGON INDEPENDENT PAVING CO. at $1,614; asphaltic concrete re-dress on the Alameda, to GIEBISCH & JOPLIN, at $71,844; concrete on Market St. drive, to HARRY HOWARD, at $5734; asphaltic concrete on Eugene St., from Williams to Union Ave., to the OREGON INDEPENDENT PAVING CO., at $5633.

+St. Johns, Ore.—The City Council has awarded a contract for the construction of a road from the Willamette Blvd. to the Portland drydock to V. W. MASON, Portland, at approximately $5000.

+Sutherlin, Ore.—(Official)—The contract for grading and paving Central Ave. has been awarded to the ARENZ CONSTRUCTION CO., Salem, at $27,009. The only other bid was that of Cummings & Nutings, $29,820. Noted Aug. 13.

+Inglewood, Calif.—The contract for improving Severance St. and Manchester Ave. has been awarded to GEORGE R. CURTIS, 552 South St. Louis St., Los Angeles.

+Madera, Calif.—The contract for improving B St. has been awarded to M. HAYNES, Kingsburg.

Riverside, Calif.—Bids will be received by the County Supervisors, until 2 p.m., Sept. 10, for improving about 9½ miles on the Perris Road, beyond Box Spring grade. G. M. Pearson is Chief Engr.

Santa Barbara, Calif.—According to press reports, bids will be received by the Board of County Supervisors, until Sept. 8, for grading and paving 6630 lin.ft. of the San Marcos Turnpike Road and 4592 lin.ft. of the Fairview Road.

✚Yreka, Calif.—A contract for constructing the Shasta Springs McCloud Road has been awarded to RUFUS BRAM, Dunsmuir, at $5700.

✚Chatham, Ont.—A contract for constructing 600 yd. of tarvia pavement has been awarded to the CARRITTE PATERSON CO., St. John, N. B.

INDUSTRIAL WORKS

Chicopee, Mass.—The Knit Goods Specialty Co. plans to erct a two-story factory on Paine St.

Worcester, Mass.—The Graton & Knight Mfg. Co., Franklin St., is having plans prepared for a one-story, 110x226-ft. reinforced-concrete factory, and a two-story, 60x226-ft. storage house. Cutting, Carleton & Cutting, 44 Front St. Worcester, are the Archs.

The Rockwood Sprinkler Co. plans to build a two-story, 114x244-ft. factory on Harlow St. J. P. Ashley is the Mgr.

Fairfield, Conn.—The Max Ams Machine Co., New Rochelle, N. Y., has purchased 20 acres of land here, where it plans to erect a factory.

Torrington, Conn.—The Excelsior Needle Co. is having plans prepared for a three-story, 52x253-ft. factory to be erected on Field St. E. H. Waterbury is the Arch.

✚Buffalo, N. Y.—The Taber Pump Co., 262 Elk St., has awarded the contract for the construction of a 117x145-ft. foundry, and 38x195-ft. machine shop, to the WESTERN CONSTRUCTION CO., Iroquois Bldg., Buffalo.

The Buffalo Meter Co. is having plans prepared for the construction of a plant at Main St. and the Erie R.R. George B. Bassett is Pres. Lockwood,Green & Co., Engrs., Boston, Mass., are preparing the plans.

Frenchtown, N. J.—The Star Porcelain Co., manufacturer of electrical porcelain, plans to build a 50x150-ft. reinforced concrete additon to its plant on Eighth St.

Jersey City, N. J.—The Hamilton Mfg. Co., Two Rivers, Wis., manufacturer of printers furniture and wooden type, plans to erect a plant in this city. The estimated cost is $200,000.

Newark, N. J.—The Sommer Faucet Co. plans to build a new factory on Dickerson St.

Allentown, Penn.—The Leicester Rubber Co., whose plant was recently destroyed by fire, is having plans prepared for a new factory. Ruhe & Lange, Allentown, are the Archs.

Philadelphia, Penn.—The Eastern Lamp Co. is having plans prepared for a one-story, 40x125-ft. factory, to be erected at 84th St. and Eastwick Ave.

Pittsburgh, Penn.—The Fort Pitt Hotel Co. is having plans prepared for the construction of a warehouse and laundry on Liberty Ave. The estimated cost is $100,000.

Baltimore, Md.—Joseph Evans Sperry, Arch., has completed plans for the plant of the City Dairy Co., Baltimore. The building will be of the Spanish-Moorish type, 400x500 ft. The estimated cost is $500,000. Noted June 25.

Hagerstown, Md.—The Windsor Knitting Co., whose plant was recently destroyed by fire, with a loss of $50,000, plans to build a new factory.

The Antietam Knitting Co., whose factory was recently destroyed by fire, has had plans prepared for the erection of a 50x120-ft. factory. The estimated cost is $25,000.

Washington, D. C.—The Chapin-Sacks Mfg. Co. plans to build an ice cream factory and cold storage plant which will include, garage, repair shop and boiler plant. The estimated cost is $300,000.

Rocky Mount, Va.—H. L. Davis plans to establish a factory for the manufacture of spokes, etc.

Marion, N. C.—Local press reports state that D. D. Little, Spartanburg, N. C., in conjunction with New York financiers plans to erect a cotton mill to cost $1,000,000.

Atlanta, Ga.—The Southern Wheel Co., St. Louis, Mo., will erect a foundry in Atlanta, to cost $60,000, and will equip it for the manufacture of cast iron car wheels.

Savannah, Ga.—G. Ober & Sons, Baltimore, has had plans prepared for a fertilizer plant to be constructed this fall. The estimated cost is $40,000.

New Orleans, La.—The Southern Pacific Co. plans to build several additons to its shops at Algiers. A plant for the manufacture of locomotive boilers and fittings will be erected. The estimated cost of the improvements is $150,000. Guy Hopkins, Acting Gen. Mgr., is preparing the plans.

New Orleans, La.—The York Coöperative Tire & Rubber Co. plans to erect a tire manufacturing plant. Leslie Dunnis is Pres. and W. Cooke, Vice-Pres.

Altonpark, Tenn.—The Chattanooga Gas & Coal Co., recently organized, has accepted a tract of land from the Chattanooga Chamber of Commerce at Altonpark, and will build a byproduct coke oven plant to cost about $1,000,000, and to have a daily output of 300 tons of foundry coke, 4,000,000,000 cu.ft. of lighting and fuel gas, 6,000,000 gal. of coal tar, and 2000 lb. of ammonia. Construction work will start before Sept. 30. Lewis T. Wolle, Ch. Engr., Durham Coal & Iron Co., is Pres.

Memphis, Tenn.—The Cypress Incubator Co. plans to establish a stock food factory, to cost about $75,000.

✚Cincinnati, Ohio—The Donaldson Art Metal Sign Co. has awarded the contract for the concrete foundation work on its new plant, to the FERRO CONCRETE CONSTRUCTION CO. Bernard T. Wisenall, Cincinnati, is the Arch.

✚Cincinnati, Ohio—The Methodist Book Concern has awarded the contract for the construction of an addition to its publishing plant to the FERRO CONCRETE CO. The estimated cost is $350,00. Samuel Hannaford & Sons, Hulbert Block, prepared the plans.

The Clifton Springs Distilling Co. plans to build car shops at Ludlow Ave. and the Baltimore & Ohio R.R. The estimated cost is $12,000. Ward Baldwin, 907 Commercial-Tribune Bldg., is Arch. and Engr.

Cleveland, Ohio—The Landesman-Hirschheimer Co., 1323 West Ninth St., plans to build a cloak and suit factory at Payne Ave. and East 24th St. The estimated cost is $250,000. Harry New is the Mgr.

The Cohn-Goodman Co., 1140 West Sixth St., plans to build a cloak factory at Payne Ave. and East 23d St. The estimated cost is $250,000.

Cleveland, Ohio—The Ford Motor Co., Detroit, Mich., plans to erect a factory here, to cost about $350,000.

The Cleveland Seating Co., 550 Rose Bldg., has purchased a site on East 152d St. ,where it is planned to erect a factory for the manufacture of school and church furniture. The estimated cost is $75,000.

✚Columbus, Ohio—The contract for the construction of the dairy at the Wooster Experiment Station has been awarded to the BRIGHT CONSTRUCTION CO., Toledo, at $13,335. Dawson & Holbrook, Columbus, are the Archs.

Columbus, Ohio—The Welsbach Co., Philadelphia, Penn., according to local press reports, plans to erect a factory in this city.

Lima, Ohio—The Stolzenbach Baking Co. has had plans prepared for a three-story, 50x50-ft. addition to its baking plant. The estimated cost is $75,000.

Toledo, Ohio—The Toledo Ford Tire Co., manufacturer of tires, plans to erect a 60x200-ft. factory.

Youngstown, Ohio—Local press reports announce that the United States Steel Corporation has made the final purchases to complete a 350-acre site in Youngstown. Ten bar mills and byproduct coke ovens are among the proposed improvements.

Marine City, Mich.—The Michigan Salt Co. plans to construct a two-story, 76x138-ft. salt works. The estimated cost is $65,000. C. L. Vivian, 120 East State St., Ithaca, N. Y., is the Arch.

✚Chicago, Ill.—T. Edward Wilder, 1034 Crosby St., has awarded the contract for a five-story addition to his factory, to the SUMNER SOLLITT CO., Chicago. The estimated cost is $48,000. J. C. Gardner, Chicago, is the Arch.

The Pure Carbonic Co., 2020 South Canal St., has awarded the contract for the construction of its factory addition to the UNION CONTRACTING CO., Chicago. The estimated cost is $20,000. Chatten & Hammond, Chicago, are the Archs.

The Western Foundry Co., 3112 West 37th St., is having plans prepared for the construction of a one-story machine shop to cost $11,000. M. Morehouse, Chicago, is the Arch.

Tilton, Il.—The Danville Refractories Co., Danville, Ill., manufacturer of refractory brick, plans to erect a plant in this city. The estimated cost is $100,000. C. J. Crawford, St. Louis, Mo., is interested.

Marshfield, Wis.—The Felker Co., manufacturer of galvanized iron products, plans to erect a new factory.

Billings, Mont.—The Enterprise Sheet Metal Works, Inc., is having plans prepared for a one-story, 50x130-ft. addition for the manufacture of furnaces.

Houston, Tex.—The Texas Metal Co. has secured a site, and will erect a factory on McKinney Ave., for the manufacture of metal products. J. J. Schuler is interested.

Paris, Idaho—The Jenson Creamery Co., Salt Lake City, plans to erect a creamery in this city.

Ogden, Utah.—Bids will be received by the Manager for the construction of the plant of the Utah Cereal Food Co. The buildings to be erected are, three-story, 50x150-ft. factory, power plant and a 30x50-ft. warehouse. The estimated cost of the improvements is $70,000. Noted May 14.

Wickenburg, Ariz.—Edward Shumate and associates will install a dry concentrator and other equipment, also an ore crusher, at their Rich Hill mining property near Wickenburg.

Centralia, Wash.—The Bunker Shingle Co., whose plant was recently destroyed by fire, is having plans prepared for a factory to be erected on the former site.

Spokane, Wash.—The Hewitt Steel Corporation plans to erect a rolling mill on Chambers Creek, at a cost of $750,000, also a furnace to cost $1,500,000. Henry Hewitt and H. J. Handahl, Vancouver, Wash., are interested.

Portland, Ore.—The Fiske Rubber Co. will erect a three-story factory at Tenth and Burnside Sts.

Berkeley, Calif.—The Gillette Corset Co., New York and Paris, is contemplating the establishment of a factory on the Pacific coast. The Berkeley chamber of commerce is negotiating for the industry.

Long Beach, Calif.—J. T. Raycraft, 445 E. Tenth St., will soon build a commercial garage and machine shop on American Ave. for A. Roberts. The estimated cost is $38,600. Horace Austin, Long Beach, is the Arch.

Oakland, Calif.—The Dibble Air Brake Co. has announced that the plant will be removed from Salt Lake City to this city. A site for a factory, convenient to rail and water transportation, is being sought.

Dorchester, N. B.—The Eastern Linen Mills Ltd. plans to erect a plant in this city. John L. MacKinnon, Keith Bldg., Halifax, N. S., is interested.

Montreal, Que.—The Toilet Laundry Co., 425 Richmond St., will receive bids in the near future for the construction of additions to its plant. The estimated cost is $75,000. Hutchinson, Wood & Miller, Royal Ins. Bldg., are the Archs.

Brockville, Ont.—The Smart Mfg. Co. has had plans completed for a three-story, 100x150-ft. factory, to replace its plant recently destroyed by fire. J. D. Denise, Olean, N. Y., is Consult. Engr. Noted Aug. 6.

Toronto, Ont.—The William Davies Co., Chicago and Ossington Aves., plans to build an addition to the plant which will cost $10,000.

Dauntless, Alta.—The Dominion Harvester Co. has had plans prepared for the erection of a $75,000 factory.

Redcliff, Alta.—The Imperial Brass Mfg. Co., Chicago, Ill., plans to erect a 49x150-ft. factory here.

FEDERAL GOVERNMENT WORK

Paving—Springfield, Mass.—Bids will be received until Sept. 21, by the Commanding Officer, Springfield Armory, for paving with vitrified brick that portion of Pearl St. belonging to the United States; also for resurfacing a portion of Pearl St.

Air Compressor, Etc.—Watertown, Mass.—Bids will be received until noon, Sept. 24, by the Commanding Officer, Watertown Arsenal, for one Norwalk single air compressor, cylinder 20x24, six 2-in. stop valves and pipes, one oil receiver and two pressure gages.

✝Post Office—Narragansett Pier, R. I.—Bids will be received until 3 p.m., Oct. 7, by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for the construction complete of the U. S. post office at Narragansett Pier, R. I. It will be a two-story and basement building, ground area of 4030 sq.ft., partial fireproof construction.

Post Office—Bedford, Penn.—Bids were received as follows Aug. 24, by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office at Bedford, (a) limestone; (b) sandstone:

J. S. Rogers, Moorestown, Penn., (a) $56,460; (b) $59,460. Westchester Engineering Co., White Plains, N. Y., (a) $35,784; (b) $57,800. Olin Gerlach, Frostburg, Md., (a) $58,443; (b) $61,000. W. H. Fissell & Co., New York, N. Y., (a) $52,800; (b) $56,800. James Devault, Canton, Ohio, (a) $59,900; (b) $61,488. Daniel T. McCarthy, Philadelphia, Penn., (a) $57,439; (b) $59,539. Cottage Planing Mill Co., Everett, Penn., (a) $63,900; (b) $61,800. The building will be one story and basement, ground area, 4720 sq.ft., stone facing, first floor fireproof, composition roof. Noted July 16.

Converter Sets—Philadelphia, Penn.—Bids were received, Aug. 29, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for two 560-kw. rotary converter sets at the Navy Yard, Philadelphia, from the General Electric Co., Schenectady, N. Y., $13,908; Westinghouse Electric & Mfg. Co., Pittsburgh, Penn., $10,757. Noted Aug. 20.

Locomotive Cranes—Philadelphia, Penn.—Bids will be received until 11 a.m., Sept. 26, by H. R. Stanford, Chief, Bureau of Yards and Docks, Navy Dept., Washington, D. C., for three 15-ton locomotive cranes for the Navy Yard, Philadelphia, and one 15-ton locomotive crane for the Navy Yard, Charleston, S. C.

Repairing Vessel—Baltimore, Md.—Bids will be received until 2 p.m., Sept. 15, by the Lighthouse Inspector, Baltimore, for repairing light vessel No. 45.

✝Gun Forgings—Washington, D. C.—The following contracts have been awarded from bids received July 29 for 55 sets of five-in. steel gun forging for the U. S. navy: MIDVALE STEEL CO., Nicetown, Philadelphia, Penn., 27 sets, $84,516; BETHLEHEM STEEL CO., South Bethlehem, Penn., 16 sets, $51,997; CRUCIBLE STEEL CO. of AMERICA, Pittsburgh, Penn., 12 sets, $36,532.

Mail Conveying Apparatus—Washington, D. C.—Bids will be received until 2 p.m., Sept. 15, by Cornelius Ford, Public Printer, Washington, D. C., for mechanical mail conveying apparatus to be placed in the Government printing office, Washington, D. C.

Steel Sash and Frames—Washington, D. C.—Bids will be received until 2 p.m., Sept. 9, by B. Sweeney, Asst. Secy. of the Interior, Washington, D. C., for 104 steel window sash and frames with wired glass and operating devices, for the Pension Office building, Washington.

Cable Hangers—Washington Barracks, D. C.—Bids will be received until 11 a.m., Sept. 8, by Lieut. Col. Joseph E. Kuhn, Corps Engrs., U. S. A., Washington Barracks, D. C., for furnishing 8000 No. 0 cable hangers with screws.

Refrigerating Apparatus—Washington Barracks, D. C.—Bids will be received until 11 a.m., Sept. 23, by Lieut. Col. Joseph E. Kuhn, Corps Engrs., U. S. A., Washington Barracks, D. C., for refrigerating apparatus having a daily capacity of six tons.

★Motor Boat—Wilmington, N. C.—Bids will be received until noon, Sept. 28, by Maj. H. W. Stickle, Corps Engrs., U. S. A., for the construction of the motor survey boat "Neuse."

Elevator Equipment—Atlanta, Ga.—Bids will be received until 10 a.m., Sept. 24, by F. H. Duehay, Supt. of Prisons, Dept. of Justice, Washington, D. C., for elevator equipment for the hospital building of the U. S. penitentiary at Atlanta, Ga.

Post Office—Tupelo, Miss.—Bids were received as follows, Aug. 26, for the construction of a post office at Tupelo, (a) limestone; (b) sandstone:

George W. Stiles Construction Co., Chicago, Ill.; (a) $47,350. Newport Contracting & Engineering Co., Newport News, Va., (a) $47,303; (b) $48,000. W. H. Fissell & Co., New York, (a) $44,979; (b) $46,116. The building will be one-story and mezzanine and basement stone and brick faced, 4000 sq.ft. ground area, composition roof. Noted July 23.

Plumbing and Lighting—Baton Rouge, La.—Bids will be received until 3 p.m., Sept. 21, by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for alterations in the plumbing and lighting of the U. S. post office at Baton Rouge, La.

★Steel Barge—New Orleans, La.—The following bids were received by Maj. C. O. Sherrill, Corps Engrs., U. S. A., for the steel barge, (a) delivered at New Orleans, (b) at yards: E. J. Howard, Jeffersonville, Ind., (a) $8250, (b) $7800; Jones-Laughlin Steel Co., Pittsburgh, Penn., (a) $9585; (b) $8695; American Bridge Co., Pittsburgh, Penn., (a) $9500, (b) $8700; Pittsburgh-Des Moines Steel Co., Pittsburgh, Penn., (a) $9975, (b) $9000. Noted July 16.

✝Elevators—Dayton, Ohio—The contract for installing two electric passenger elevators, three hydraulic lifts, and a pumping plant in the U. S. post office and courthouse, Dayton, has been awarded to the FAUNT LE ROY ELEVATOR CO., Baltimore, Md., at $12,432. Noted June 11 and July 9.

Breakwater—Indiana Harbor, Ind.—Bids will be received until 10 a.m., Sept. 23, by Lieut. Col. W. V. Judson, Corps Engrs., U. S. A., Chicago, Ill., for constructing a rubble-mound breakwater at Indiana Harbor, Ind.

Gates and Gate-Stands—Great Falls Mont—Bids were received Aug. 4 for the construction of gates and gate-stands for the northern division, U. S. Reclamation Service, from: Fulton Engine Works, P. O. Box 296, Los Angeles, Calif., $34,229; Hinman Hydraulic Manufacturing Co., 1400 West Colfax Ave., Denver, Colo., $31,038; Minneapolis Steel & Machinery Co., Minneapolis, Minn., $32,993. Noted July 9.

✝Steel Pipe—Great Falls, Mont.—The contract for steel pipes for the St. Mary storage unit of the Milk River irrigation project has been awarded to the CHICAGO BRIDGE & IRON WORKS, Chicago, Ill., at $49,600.

✝Post Office—De Soto, Mo.—The contract for the construction of the U. S. post office at DeSoto, Mo., has been awarded to the HIRAM LLOYD BUILDING & CONSTRUCTION CO., Odd Fellows' Bldg., St. Louis, Mo., at $47,250.

Post Office—Longview, Tex.—All bids received May 12 for the construction of the U. S. post office at Longview, Tex., have been rejected. Noted Apr. 9 and May 21.

Post Office—Medford, Ore.—Bids were received as follows Aug. 24, by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post office, Medford (a) limestone; (b) sandstone:

J. L. Murphy & Sons, Charleston, Wash., (a) $108,680; (b) same. R. E. Campbell, Salt Lake City, Utah, (a) $88,600; (b) $88,400. King Lumber Co., Charlottesville, Va., (a) $100,000; (b) $99,400. John Almeter, Portland, Ore., (a) $87,277; (b) $87,177. A. W. Kutsche, Portland, Ore., (a) $75,645; (b) $75,445. Sound Construction & Engineering Co., Seattle, Wash., (a) $76,780; (b) $77,100. W. M. O'Neill Sons & Co., Faribault, Minn., (a) $99,741. Welsch Bros., Oakland, Calif., (a) $92,697; (b) same. Palmberg Mattson, Astoria, Ore. (a) $92,686; (b) same. Fred A. Ericson, Salem, Ore., (a) $100,882; (b) $99,882. The building will be three-story and basement, ground area 5500 sq.ft., first floor fireproof, stone, ornamental terra cotta and brick facing, composition roof. Noted Aug. 13.

Pile and Lumber Work—Mare Island, Calif.—Bids will be received until 11 p.m., Sept. 19, by H. R. Stanford, Chief, Bureau of Yards and Docks, Navy Dept., Washington, D. C., for pile and lumber work for reconstructing the quay wall at the Navy Yard, Mare Island, Calif.

Coal-Hoisting Tower—San Diego, Calif.—Bids were received as follows, Aug. 29, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the construction of a coal hoisting tower, at the naval coast depot, San Diego: Mead-Morrison Co., Boston, Mass., $41,245. McMyler Interstate Co., Bedford, Ohio, $35,400. Robbins Conveying Belt Co., New York, $42,676. C. W. Hunt Co., Inc., New York, $44,837. Noted July 30.

Cold-Storage Plant—Pearl Harbor, Hawaii—Bids were received as follows, Aug. 29, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the construction and equipment of an ammonia ice-making and refrigerating plant: Vilter Mfg. Co., Milwaukee, Wis., $18,600. Mayer Ice Machine & Engine Co., Jersey City, N. J., $16,200. Frick Co., Waynesboro, Penn., $25,775. Noted July 30.

Buildings—San Juan, Porto Rico—Bids will be received until 11 a.m., Oct. 10, by H. R. Stanford, Chief, Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the construction of radio building, concrete, and operators' quarters, wood construction, at the U. S. Naval Radio Station, San Juan, Porto Rico.

MISCELLANEOUS

✝Dredging—Boston, Mass.—The Directors of the Port have awarded a contract to CHARLES M. COLE, Fall River, at $52,555, for dredging in Dorchester Bay. Noted Aug. 27.

River Protective Work—Boston, Mass.—(Official)—Bids will be received by the Board of Harbor and Land Commissioners, State House, Boston, until noon, Sept. 8, for protective work on the easterly bank of the Connecticut River. William F. Williams is Ch. Engr. of the Comn.

Coal Pocket, Sea-Wall, Etc.—Boston, Mass.—(Official)—Bids will be received by the Trustees of the City Hospital, until noon, Sept. 9, for constructing a sea-wall and coal pockets and for installing coal-handling machinery and tower at the hospital. Frank H. Holt is Act. Supt.

Retaining Wall, Dredging, Etc.—Salem, Mass.—(Official)—Bids will be received by the Commissioners of Essex County, Salem, until 9:20 a.m., Sept. 10, for widening Merrimac St., in Lawrence, Mass. The work includes the construction of a 575-ft. retaining wall along the bank of the Shawsheen River, dredging the river channel to provide extra waterway and building an embankment to widen the highway. Moody Kimball, James C. Poor and J. M. Grosvenor, Jr., are the Comrs.

Barge Canal Work—Albany, N. Y.—(Official)—Bids were recived Aug. 25 by Duncan W. Peck, State Supt. Pub. Wks., for (a) Contract 46-A, constructing Erie canal from Fox Ridge to the Montezuma aqueduct, (b) Contract 125, Erie Canal, Sect. 2, constructing Vischers Ferry Road viaduct and approaches over the Troy-Schnectady branch of the New York Central R. R., and (c) Contract 126, Champlain Canal, Sect. 1, for raising a highway bridge at Mechanicsville, as follows: James Stewart & Co., Inc., 30 Church St., New York, (a) $196,133; Sherman Stalter Co., Cleveland, Ohio, (a) $293,951; New York State Dredging Corporation, Rochester, (a) $315,456; Great Lakes Dredge & Dock Co., Buffalo, (a) $236,066; Eastover Construction Co., Utica, (a) $239,981; Kinser Construction Co., East St. Louis, Ill., (a) $271,301; Maryland Dredging & Contracting Co., Baltimore, Md., (a) $291,110; Merrill-Ruckgaber Co., New York, (b) $47,462; (c) $8970; Frank L. Cohen, Buffalo, (b) $44,643; Drake & Dean Co., Inc., Buffalo, (b) $43,529; Walsh Construction Co., Davenport, Iowa, (b) $43,163; Whitehead & Kales Iron Works, Detroit, Mich., (b) $45,097; Ford & Green, Schenectady, (b) $43,216; State Highway Con-

Struction Co., Beacon, (b) $42,855; Lupfer & Remick, Buffalo, (b) $44,215; Keith & Guthrie, Schenectady, (b) $41,267; Flood & Van Wirt Co., Hudson Falls, (c) $7775; Horseheads Construction Co., Horseheads, (c) $6904.

★Grading and Razing Building—Buffalo, N. Y.—(Official)—Bids will be received by Dr. Thomas E. Finegan, Asst. Comr., Elementary Education, Education Bldg., Albany, N. Y., until noon, Sept. 5, for grading the grounds and razing the present main building of the State Normal School at Buffalo. Lewis F. Pilcher, Albany, is State Arch.

Harbor Improvement, Etc.—Easthampton, N. Y.—The State Engineer is preparing plans for deepening Three Mile Harbor and constructing a sea wall at its entrance. An appropriation of $10,000 is available for the work.

★Subway—New York, N. Y.—(Official)—Bids will be received by the Public Service Commission, 154 Nassau St., Borough of Manhattan, until Sept. 15, for constructing Sect. 21, Route 48, the Park Place, William and Clark St. subway, a part of the Seventh Ave.-Lex.ngton Ave. rapid transit railroad.

✚Subway—New York, N. Y.—(Special Work)—The contract for special work on portions of the Broadway-Fourth Ave. rapid transit railroad, Borough of Brooklyn, has been awarded by the Public Service Commission to the PENNSYLVANIA STEEL CO., at $37,427. Noted Aug. 6.

Laundry Equipment—Rochester, N. Y.—See item under "Sewers."

✚Dams, River Work—Rochester, N. Y.—The Board of Contract and Supply has awarded contracts to T. A. GILLESPIE CO., New York, at $59,600, for constructing movable dams, and to R. T. FORD CO., Rochester, at $284,100, for deepening the Genesee River. Noted Aug. 6.

✚Conduit—Jersey City, N. J.—The Pennsylvania R.R. has awarded a contract to WILLIAM J. McCLOUD & CO., Elizabeth, at $50,000, for constructing a multiple duct underground conduit along its line from Jersey City to Rahway.

Fire Truck—Erie, Penn.—The Safety Board has been authorized to spend $12,000 for the purchase of an aerial fire truck.

★Tunnel—Huntingdon, Penn.—(Official)—Bids are being received by the Broad Top Coal & Mineral Co., Huntingdon, for the construction of a rock tunnel, 6x7 ft., 180 ft. long.

Excavating, Grading, Etc.—Pottsville, Penn.—Bids will be received by J. E. Kantner, County Controller, Pottsville, until Sept. 8, for excavating, grading and improving the grounds at the hospital for insane at Schuylkill Haven.

✚Comfort Station—Baltimore, Md.—The city has awarded a contract to CHARLES HERBOLD, 2729 West North Ave., Baltimore, for constructing an addition to the comfort station at Centre Market Space and Lombard St.

Harbor Improvement—Baltimore, Md.—At an election to be held in November, the proposition to spend $250,000 for deepening the channel of the harbor will be submitted to the citizens.

Wall—Charleston, W. Va.—Bids will be received by the Board of Affairs until 2 p.m., Sept. 10, for constructing a retaining wall along the levee. J. F. Bedell is Pres. of the Bd.

Terminal—Savannah, Ga.—The Ocean Steamship Co. contemplates an expenditure of $1,000,000 for the construction of a terminal at Savannah.

Sea-Wall—Green Cove Springs, Fla.—The Espiritu Santo Springs Co. plans the construction of a 3900-ft. sea-wall at Green Cove Springs.

✚Steel for Docks—Jacksonville, Fla.—The Port Commissioners have awarded a contract to the LACKAWANNA STEEL CO., Buffalo, N. Y., at $55,000, for furnishing steel for the municipal docks and terminals.

Encasing Pipe Line—Alexandria, La.—The Standard Oil Co. is preparing to encase about eight miles of its pipe line line in the Bayou Boeuf swamp, near Alexandria.

Drainage—New Orleans, La.—Bids will be received by the Water and Sewerage Board until Oct. 2, for making extension to Drainage Station No. 6. The work includes lining and covering canals in St. Bernard Ave. and for valves, etc. Plans are on file with George Earl, Gen. Supt.

Coaling Station—Hollow Rock Junction (Hollow Rock post office), Tenn.—The Nashville, Chattanooga & St. Louis Ry. will erect a steel coaling station costing between $15,000 and $20,000, at Hollow Rock Junction on the Paducah & Nashville Division.

✚Fish Hatchery—Put-in-Bay, Ohio—The contract for constructing a new fish hatchery plant for the State of Ohio has been awarded to JOHN A. FEICH & SON, Sandusky, at $14,065. Noted July 30.

✚Coal-Handling Plant—New Albany, Ind.—The Chicago, Indianapolis & Louisville Ry. Co. has awarded a contract to the OGLE CONSTRUCTION CO., 332 South Michigan Ave., Chicago, Ill., at about $50,000, for installing a coal-handling plant at New Albany.

Sea-Wall—Rock Island, Ill.—The construction of a sea-wall along the Mississippi River, at Rock Island, has beeen recommended by A. Hart, City Comr., to the City Council.

Natatorium—Milwaukee, Wis.—The low bidders for the construction of the new $60,000 Third Ward natatorium were: F. Luenzmann & Co., carpentry, $19,030; F. W. Wableszeski, masonry, $9856; painting, F. Luedke; concrete, O. H. Bossert Co., $6973; cut stone, J. A. Meyer, $1464; galvanized iron, A. Schuman, $4386; plastering, William Gregory; iron work, Milwaukee Structural Steel Co., $2876; electric, Piepkorn-Henning Co.; plumbing, O. P. Zimmerman. Noted Aug. 6.

Drains—Fort Dodge, Iowa—Bids will be received by J. L. Hanrahn, County Audr., until Sept. 4, for constructing drain No. 176. The estimated cost is $19,500.

Coal Tipple and Concrete Wall—Minneapolis, Minn.—The Lehigh Valley Coal Sales Co. has obtained a permit and will construct a coal tipple and a concrete reclaiming wall at 2841 Colfax Ave. South, at an estimated cost of $15,000.

Drainage and Levees—Poplar Bluff, Mo.—The Board of Supervisors of the drainage district in Butler County embracing 127,500 acres of land between the Black and St. Francis Rivers, has approved plans for drainage and flood protection prepared by Morgan Engineering Co., Memphis, Tenn. The work involves 58 miles of levees and the moving of 2,500,000 cu.yd. of earth.

Grain Elevator—St. Joseph, Mo.—The Chicago, Burlington & Quincy R.R. Co. will construct a grain elevator with capacity of 25,000 bu. The estimated cost is $60,000.

Levee—Caldwell, Tex.—The citizens of Levee Improvement District No. 1, of Burleson County, contemplate issuing $136,405 in bonds for the reconstruction of levees along the Brazos River which were destroyed by flood.

Comfort Stations—Dallas, Tex.—Plans are being prepared by J. Edward Overbeck, Arch., for the construction of two underground comfort stations at Elm and Ervay St. The estimated cost is $20,000. Noted July 16.

Drainage Bonds—Richmond, Tex.—Bids will be received by the County Judges until Sept. 14, for the purchase of $65,000 in bonds for drainage.

Dike—Anacortes, Wash.—A. P. Giles, Henry Bldg., Seattle, an dassociates have awarded a contract to the JAMES PARK ENGINEERING & CONSTRUCTION CO., Sattle ,at about $500,000, for constructing a dike across the entrance to Padilla Bay, near Anacortes .

Harbor Improvement—Seattle, Wash.—Low bids were received by the Commissioners of the Port, Aug. 20, for harbor improvement work, as follows: 13-story grain elevator, Boyajohn-Arnold Co., Panama Bldg., Portland, Ore., $178,050; excavation and slope protection of the East Waterway Terminal Wharf No. 2, Puget Sound Bridge & Dredging Co, Seattle, $70,875; removal of slab at same improvement, Harrington, Peters Co., Seattle, $33,000; wharf substructure in the East Waterway terminal, Butler Construction Co., Central Bldg. Seattle at about $26000

Refrigeration Equipment—Seattle, Wash.—The lowest bids received for the installation of refrigeration equipment in the Central Waterfront Cold Storage warehouse were from the Utter Mfg. Co., at $31,370, using black iron, and the Harris Ice Machine Co., at $32,998, using galvanized iron.

Wharf—Seattle, Wash.—Enzert & Ward, at $15 248, submitted the only bid for excavating and building substructure for wharf in front of the turning basin in the east waterway.

Retaining Walls—Seattle, Wash.—Bids will be received by the Port Commisssion until Sept. 10, for constructing restraining walls, dredging and filling on the property for the municipal docks, Seattle.

✚Dam—Seattle, Wash.—The contract for constructing Cedar River Dam has been awarded by the Board of Public Works to NETLETON, BRUCE & ESCHBACH CO., American Bank Bldg., at $164,565. Noted Aug. 20.

Ship Repair—Seattle, Wash.—The Pacific-Alaska Navigation Co. is preparing to repair and remodel the steamship Admiral Watson at an estimated cost of $150,000. C. W. Wiley is Gen. Mgr. of the company.

Dredging—Tacoma, Wash.—All bids received by the County Commissioners of King and Pierce Counties for dredging Stuck River channel have been rejected. New bids will soon be readvertised.

Cut-Off—Tacoma, Wash.—According to press reports, bids for constructing the Murphy cut-off on the Pierce-King County river project were received by the County Commissioners from United Iron Works, Seattle, $68,000 for dredge only; P. Mason, Dockton, $38,500 for piling, lumber and iron; Todd, Coates & Stevens Seattle $114,975 fo rexcavation, piling, lumber iron and clearing 16 acres; Cross & Collins Seattle, for dredge, excavation, piling and clearing; A. W. Tweeden & C. W. Marsh, $64,000 for dredge only; Tacoma Dredging Co., $128,335 for excavation, piling, lumber, iron and clearing.

Coal Handling Equipment—Astoria, Ore.—(Official)—The date for receiving bids for furnishing coal handling equipment has been indefinitely postponed. F. J. Walsh is Ch. Engr. Port of Astoria. Noted July 23.

Ditches—Betteravia, Calif.—The Union Sugar Co. plans to construct 10,500 lin.ft. of ditches. Drain tiles will be laid in some of the ditches. J. W. Atkinson is Mgr.

Wharf—Oakland, Calif.—Bids will be received by the City Council for the construction of a timber wharf. James E. Sutton is the Engr.

Wharf—Redondo, Calif.—The City Council contemplates constructing a reinforced-concrete municipal wharf at the foot of Emerald St., at an estimated cost of $121,000.

Temporary Bulkhead—San Diego, Calif.—The Harbor Commission will build a temporary bulkhead north of Grape St., at an estimated cost of $11,500.

Extension to Breakwater—St. John, N. B.—Bids will be received by R. C. Desrochers, Secy. Dept. Pub. Wks., Ottawa, Ont., until Oct. 7, for extending the breakwater at Negro Point, St. John. Noted July 16.

Fire Stations—Lachine, Que.—Bids will soon be received by H. Charette, Town Secy., for the construction of two fire stations, to cost $15,000 each.

BUILDINGS

✚Sanford, Maine—The contract for erecting the Sanford National Bank has been awarded to the J. W. BISHOP CO., 682 Atlantic Ave., Boston. The estimated cost is $75,000. Thomas M. James, 15 Asburton Place, Boston, is the Arch.

Boston, Mass.—R. G. Crosby, 44 Glendale St., Dorchester, will build a three-story business block at Commonwealth Ave. and Boulevard Terrace, Brighton. The estimated cost is $50,000. C. A. & F. N. Russel, 50 Warren St., are the Archs.

Everett, Mass.—Henry A. Lo Bow will erect a building on School St., to contain theatre, apartments, etc., estimated to cost $150,000. J. J. Smith is Arch.

✚Springfield, Mass.—The contract for erecting the lodge building at Myrtle and State Sts., for the B. P. O. E., has been awarded to DANIEL C. SHEA, at $50,000. Other bids were: E. T. Davis & Son, $50,700; E. L. Sampson, $54,350; F. T. Ley, $60,950.

Springfield, Mass.—Bliss & Lavalle, Archs., are preparing plans for a high school, to be erected in West Springfield. The building will be three stories, of brick.

Worcester, Mass.—Charles E. Sandberg will build a three-story brick and steel business block at Thomas and Commercial Sts. H. S. Demoorjain, State Mutual Bldg., is Arch.

Worcester, Mass.—The Strand Theatre Co., New York, N. Y., will build a theatre at Front and Mercantile St. Thomas W. Lamb is the Arch.

Providence, R. I.—Plans are being prepared for making improvements to the main building at Dexter Asylum. The estimated cost is $42,000.

Derby, Conn.—The following bids were received by the Board of Education for building the addition to the high school: M. A. Durrschmidt, Derby, $46,454; Eastern Engineering & Construction Co., Derby, $47,810; T. J. Pary Construction Co., Bridgeport, $48,511; Dowling & Bottomley Co., Bridgeport, $51,663; H. Wales Lines Co., Meriden, $48,984; Ebenezer Ritchie Shelton, $51,570.

✚Hartford, Conn.—The New York, New Haven & Hartford R.R. Co. has awarded the general contract for the reconstruction of its station to the P. J. CARLIN CONSTRUCTION CO., 1123 Broadway, New York, N. Y. The building will be two and three stories, of brick, with brown stone trim. The cost is estimated at $220,000. Edward Gagel, New Haven, Conn., is Ch. Engr. Noted May 7 and Aug. 6.

✚New Haven, Conn.—The contract for building the three-story brick and marble building for the New Haven Bank, at 809 Chapel St., has been awarded to HOGGSON BROS., New York, N. Y. The estimated cost is $100,000.

Buffalo, N. Y.—The lowest bids received by the Commissioner of Public Works for constructing School No. 66, on South Side Parkway, are as follows: Masonry, Charles H. Everett, $60,975; iron work, C. F. Ernst's Sons, $13,569; fireproofing, Crescent Concrete Co., $10,947; carpentry, A. F. Bournique, $11,593.

Delhi, N. Y.—The city will erect a brick and concrete school from plans of Pierce & Bickford, Archs., Elmira, N. Y. The estimated cost is $50,000.

✚New York, N. Y.—(Borough the Bronx)—(Official)—The TURNER CONSTRUCTION CO. has been awarded the general contract by the C. Leicester Payne Estate for the construction of a three-story service building for the Austin Nichols Co., at 129th St., near Third Ave. The building will be 60x173 ft., of reinforced concrete and brick. Hopkins & McEntee are the Archs.

New York, N. Y.—(Borough of Manhattan)—Gaetano Ajello, West 34th St., has prepared plans for a 12-story brick store and apartment at 2321 Broadway, for the Paterno Construction Co. The estimated cost is $600,000.

Warren & Wetmore, Archs., 16 East 47th St., have completed plans for a four-story brick, stone and granite building at Lexington Ave. and 45th St., for the New York Central R. R. The estimated cost is $500,000.

(Borough of Manhattan)—Bids will be received by Delano & Aldrich, 4 East 39th St., until Sept. 8, for a six-story clubhouse at 62d St. and Park Ave., for the Colony Club. The estimated cost is $450,000.

(Borough of Manhattan)—Harold L. Young, 1204 Broadway, has completed plans for a six-story apartment at Riverside Drive and 161st St., for the Melvin Construction Co., 189 Broadway. The cost is estimated at $300,000.

Frankfort & Kirschner, 830 Westchester Ave., have completed plans for the five-story apartment, 50x87 ft., on Academy St., for the Loyal Building Co., 391 East 149th St., to cost about $50,000.

Schwartz, Gross & Marcus, 347 Fifth Ave., have completed plans for the 12-story apartment at West End Ave. and 96th St., for the Essie Construction Co., 355 West End Ave. The cost will be about $600,000.

Plans have been completed by George F. Pelham, 30 East 42d St., for the 11-story apartment at Riverside Drive and 149th St., for the West Side Construction Co., 322 West 100th St., to cost about $425,000.

✚(Borough of Bronx)—The contract for constructing Public School No. 55 has been awarded to the LIBMAN CONTRACTING CO., 126 West 46th St., at $293,800. Noted Aug. 27.

Belleville, N. J.—The Board of Education has adopted resolutions poviding for the construction of a combined grammar and high school on Washington Ave., to cost $106,000.

Jersey City, N. J.—Bids will be received by the Board of Chosen Freeholders, until Sept. 10, for building an addition to the Tuberculosis Hospital at Snake Hill.

Jersey City, N. J.—Bids will be received by the Board of Education, City Hall, until 8 p.m., Sept. 16, for the erection of School No. 5, on Merseles St., near Third St.

M. Sulzer will build a four-story building at 135 Magnolia Ave., to cost $50,000.

Newark, N. J.—The Board of Education has ordered the preparation of plans for a new sixteen-room school at Eighth Ave. and Factory St., to be known as the McKinley School.

The Charter Oak Realty Co. will build a four-story and basement brick and steel building, 139x160 ft., on Broad St., to be used as an addition to the department store of L. S. Plaut & Co. The estimated cost is $400,000.

Union Hill (Weehawken Post Office), N. J.—Thomas McClelland will build two four-story brick buildings on Bergenline Ave., to cost about $40,000.

West New York (Weehawken Post Office), N. J.—Arthur E. Dare, Jr., 650 Bergenline Ave., is preparing plans for a brick loft building for the Filmore Realty Co., at 17th St. and Filmore Place.

Bids will be received by James L. Wolfe, Town Clk., until Sept. 8, for erecting a municipal building at 16th St. and Harrison Place. William Mayer, Jr., 693 Bergenline Ave., is Arch.

Colver, Penn.—Press reports state that plans have been completed for a $40,000 hospital for the Ebensburg Coal Co.

Coraopolis, Penn.—W. G. Eckles, New Castle, Penn., is preparing plans for a stone church for the First Presbyterian congregation, to cost $60,000.

Grafton, Penn.—According to press reports, the lowest bid submitted for constructing the two-story brick school was that of Henry Busse & Co., at about $100,000.

✚Hazleton, Penn.—The contract for erecting the steel, brick and stone church for the Italian Catholic congregation has been awarded to BARRETT BROS. CONSTRUCTION CO., at about $40,000.

Pittsburgh, Penn.—Thomas Hannah, Keenan Bldg., has completed plans for a group of buildings for the Western Theological Seminary, on Ridge Ave. The buildings will be of brick and stone and are estimated to cost $200,000.

Pittsburgh, Penn.—It is reported that bids will be received by the Board of Education for erecting the high school at Center Ave. and Grant Boulevard. The estimated cost is about $1,000,000.

Portage, Penn.—Bids will be received by the School Board, until Sept. 7, for erecting the high school. J. E. Adams, Lincoln Bldg., Johnstown, is the Arch.

✚Uniontown, Penn.—The contract for erecting the Craig School has been awarded to P. W. FINN & CO., Altoona, at $45,761.

Wilkes-Barre, Penn.—Sturdevant & Paggi, Wilkes-Barre, are preparing plans for the Wilkes-Barre Private Hospital, to cost about $160,000.

Williamsport, Penn.—The following bids were received, Aug. 21, for erecting the school, from plans of Woodnutt & Schmohl, 150 West Fourth St.: A. C. Everhart, $42,712; Saumee Larrivee, $43,450; W. H. C. Huffman's Sons, $42,170; J. V. Bermett & Co., $40,841.

York, Penn.—Bids received for erecting the Jackson and Madison schools have been rejected. Plans are being revised by Stair & Leber, York.

Frederick, Md.—John B. Hamme, Wiest Bldg., York, Penn., is preparing plans for a three-story dormitory for Hood College, to cost about $75,000.

Ridgely, Md.—The McIver Construction Co., Law Bldg., Baltimore, has completed plans for three buildings for St. Gertrude's Academy, to cost about $100,000.

Richmond, Va.—Bids will be received by the city, until Oct 10, for preparing plans for the municipal building. The building is to be in three sections, containing library, auditorium and five courts. Alfred C. Blossom, 366 Fifth Ave., New York, N. Y., is Consult. Arch.

✚Bridgeport, W. Va.—The contract for erecting the Kirkwood School has been awarded to A. B. IMHOFF, Wheeling, at $48,000.

Wheeling, W. Va.—The Pennsylvania R.R. Co. plans to build a new train shed and make extensive alterations to its station.

Jacksonville, Fla.—Bids will be received by the County Commissioners, until Sept. 16, for erecting the county jail, jailer's residence and courthouse. H. J. Klutho, St. James Bldg., Jacksonville, is Arch.

Tampa, Fla.—It is reported that bids will be received by the Board of Public Works, until Sept. 15, for erecting the Carnegie Library. The estimated cost is $50,000.

Baton Rouge, La.—Bids will be received by Favrot & Livaudais, Ltd., Perrin Bldg., New Orleans, until noon, Sept. 12, for the construction of two 2-story brick dormitories, for the Southern University at Scotland Station.

Canton, Ohio—Local press reports state that bids will be received until Sept. 10, for the erection of the superstructure of the Y. M. C. A. Bldg. The estimated cost is $150,000. Shattuck & Hussey, 19 South LaSalle St., Chicago, are the Archs.

Cincinnati, Ohio—The New Courthouse Building Commission has decided to postpone indefinitely opening bids for the construction of the proposed courthouse, which were to be opened Sept. 1. Noted July 23.

Cleveland, Ohio—Bids on the new city hall have been opened. The unofficial totals on general contract were as follows: G. A. Fuller Co., New York, N. Y., $1,097,987; J. B. Pierce Co., $1,099,500; James L. Stuart Co., $1,120,562; William Dall, $1,127,500; John Gill & Sons, $1,157,000; W. B. McCallister Co., $1,253,661.

Columbus, Ohio—The Board of Education will receive bids until Sept. 18, for the construction of a three-story school. The estimated cost is $175,000. D. Riebel & Sons are the Archs.

Toledo, Ohio—Bids will be received until Sept. 10, by Mills, Rhines, Bellman & Nordhoff, Archs., Toledo, for the construction of an addition to the public library. The estimated cost is about $40,000.

Franklin, Ind.—H. W. Foltz, Arch., is preparing plans for a State Masonic Home. The estimated cost is about $150,000.

Gary, Ind.—The Illinois Improvement & Ballast Co., is having plans prepared for a four-story, 75x125-ft. store and office building. The estimated cost is $80,000.

✚Indianapolis, Ind.—The contract for the construction of the building at Palmer and South Meridian St., for the Sacred Heart School, has been awarded to GEORGE CLEMENTS, Indianapolis. The estimated cost is $60,000. Herman J. Gaul, Chicago, is the Arch.

Terre Haute, Ind.—Bids will be received by the State Normal School Trustees for erecting a three-story, reinforced-concrete vocational and educational building. Estimated cost, $160,000. George, McLusac & Fitton, Indianapolis, are the Archs. Noted Aug. 6.

Ypsilanti, Mich.—Local press reports state that bids will be received in October for the construction of the proposed high school. It will be three-stories and 132x190-ft. The estimated cost is $110,000. Robinson & Campau, Grand Rapids, are the Archs.

†Chicago, Ill.—The Board of Education has awarded the contract for the construction of the school at 633 East Sixth St., to G. CARTER CO. The estimated cost is $150,000. A. Hussander is the Arch.

The Willys-Overland Co., 2426 South Michigan Ave., has had plans prepared for the construction of a three-story, 160x300-ft. service building and show rooms to be erected at Armour Ave. and 24th St. The estimated cost is $300,000. C. A. Eckstrom, 5 North LaSalle St., Chicago, is the Arch.

†The Chicago Hebrew Institute has awarded the contract for the construction of a gymnasium and natatorium to J. L. MONSCH, 138 North LaSalle St., Chicago. The estimated cost is $125,000. Ottenheimer, Stern & Reicherts, 103 West Monroe St., are the Archs.

†Urbana, Ill.—The University of Illinois has awarded the contract for the construction of the chemistry building to FREEMAN & BROOKS, Champaign. The estimated cost is $250,000. Noted July 23.

Milwaukee, Wis.—The Board of Education is having plans prepared for the construction of a school in the village of East Milwaukee. The estimated cost is $300,000. R. Messmer & Bro., Milwaukee, are the Archs.

Racine, Wis.—Wisconsin and Fourth St. has been chosen as the site for the $175,000 building for the Young Men's Christian Association.

Superior, Wis.—The Loyal Order of Moose has plans under consideration for the construction of a hospital to cost $500,000.

†Ames, Iowa—Seldon & Munn have awarded the contract for the construction of their hotel to W. J. ZITTERELL, Fort Dodge, Iowa, at $96,000. Proudfoot, Bird & Rawson, Des Moines, are the Archs. Noted Aug. 13.

St. Paul, Minn.—Watson P. Davidson is reported to be planning to erect a building on the site of the old Minneapolis Club, Cedar and Fourth St. The estimated cost is $200,000.

†Leavenworth, Kan.—The contract for the erection of new buildings for the Mount St. Mary's Academy has been awarded to JAMES McGONIGLE, Leavenworth. The estimated cost is $250,000.

Lincoln, Neb.—The Eagles Club is reported as ready to receive bids for the construction of a three-story club house. The estimated cost is about $50,000. Raymond Frye is the Secy.

†Anaconda, Mont.—The Board of Education has awarded the contract for the construction of an addition to the Central School to JOHNSON & LAW, Anaconda, at $52,546. Noted May 21.

Glendive, Mont.—The County Commissioners plan to erect a hospital costing $50,000.

Kansas City, Mo.—The Clark Estate plans to build a hotel to cost about $250,000. L. G. Middaugh, Kansas City, is the Arch.

Galveston, Tex.—The City of Galveston has had plans prepared for a city hall, to be erected on Avenue H and 25th St., at an estimated cost of $240,000. C. D. Hill & Co., Dallas, has prepared the plans. Noted Sept. 18.

Houston, Tex.—Joseph St. Mary, Galveston, has had plans prepared for the construction of a hotel on the site of the present Snug Harbor Hotel. The estimated cost of the building is $100,000.

†Weatherford, Tex.—The Knights of Pythias have awarded the contract for the construction of the new home to C. H. PAGE & BRO., Austin, at $50,000.

†Tulsa, Okla.—The contract for the erection of the Y. M. C. A. Building has been awarded to the BRICKNER LAWS CONSTRUCTION CO., Tulsa, at $82,874. Noted July 9.

The School Property Commission is having plans prepared for a twelve-room school to be erected at Greenwood and Leslie St. Estimated to cost about $75,000.

†Denver, Col.—The Denver Union Terminal Railway Co. has awarded the contract for alterations and additions to the Union Passenger Station to STOCKER & FRASER, Denver. The estimated cost of the improvements is $400,000. Gove & Walsh are the Archs.

Denver, Colo.—The Colorado National Bank will receive bids for the construction of a three-story, 100x125-ft. bank building. W. E. and A. A. Fisher, Denver, are the Archs.

Mimbres, N. M.—The Mimbres Hot Springs Co., which has been organized with a capital stock of $150,000, will erect a hotel. S. S. Hillard, of Deming, N. M., is interested.

Tacoma, Wash.—Plans for the Elk's Temple have been submitted by architects from all over the state and the committee will make its choice in a short time. The building will be erected at Seventh and C St., and will cost about $100,000. Noted July 30.

Astoria, Ore.—The local Masonic Lodge plans to erect a temple to cost about $100,000.

Eugene, Ore.—Bids will be received by J. H. Johnson, Secy. of the Bd. of Regents, until 1.30 p.m., Sept. 10, for the construction of an administration building at the University of Oregon. W. C. Knighton, Capitol Bldg., Salem, Ore., is the Arch.

Brawley, Calif.—T. W. Newman, of the Newman-Fuller Co., Los Angeles, plans to erect a hotel here to cost $100,000.

†Los Angeles, Calif.—The contract for the construction of the Hulett C. Merritt Bldg. has been awarded to the MERCEREAU BRIDGE & CONSTRUCTION CO. The estimated cost is $200,000. Reed Bros., San Francisco, are the Archs.

San Francisco, Calif.—The Concordia Club is having plans prepared for a clubhouse, which will cost about $75,000. G. Albert Lansburgh, 709 Mission St., is the Arch.

Sydney, N. S.—Plans are nearly completed and bids will be asked in a short time for the construction of a hospital. The estimated cost is $66,000. **L. R. Fairn, Aylesford, N. S.,** is the Arch.

†Ottawa, Ont.—J. R. Booth has awarded the contract for the construction of a four-story, 98x200-ft. theatre to A[illegible] BERT EWART, Ottawa. The estimated cost is about $150,0[illegible] C. Howard Crane, Dime Bank Bldg., Detroit, Mich., is t[illegible] Arch.

Toronto, Ont.—The Excelsior Life Association plans erect an 11-story office building at Adelaide and Toronto S[illegible] The estimated cost is $500,000. E. L. Lennox is the Arch.

Winnipeg, Man.—Genser Bros., Sargent and Beverly S[illegible] plan to erect a three-story apartment block, to cost abo[illegible] $150,000.

Edmonton, Alta.—E. W. Morehouse, Arch., has prepare[illegible] plans for an office building to be erected at Jasper Ave .an[illegible] Sixth St. The estimated cost is about $100,000.

Finances for Public Improvements—Announcement was made on Aug. 21 by the Comptroller of the City of New York, to C. A. Crane, Secretary of the General Contractors' Association, that contractors on the subway work need have no fear of payments being held up, nor of accepting script for the work. The financial position, as far as city improvements are concerned, is by no means as unfavorable as many have been lead to believe, particularly by the New York financial papers.

The 'Commercial & Financial Chronicle," New York, makes a practice of printing information relative to city, state and county bond sales, week by week. In the issue of Aug. 22, there were noted sales for 48 separate issues of bonds, where the bonds had been actually sold, aggregating $1,693,000. In the same issue, 19 bond issues were reported as not sold, the aggregate of the issues being $909,000. There were postponed 7 issues, aggregating $1,081,000. It will thus be seen that bond sales have been far more general than either postponements or failures, and in addition to the amounts mentioned, announcement was made that nearly a million dollars worth of bonds had been sold at Sacramento, Calif., over the counter, but this sale had been in process for a long time, and could not properly be included in the total given. Moreover, an issue of $340,000 bonds of Long Beach, Calif., offered without success May 1, was floated; and this issue is not included in the total. By including the two issues mentioned, the total bond sales aggregate approximately $3,000,000. It must be granted that many of the sales have been more or less forced; that is, they were taken by sinking fund commissioners, or local banks made arrangements to pay out the money as needed. This was true in Milwaukee, where the banks took $600,000 of bonds, which had been previously offered without success. The largest issue reported unsold was $610,000 for an irrigation project in California, and such bonds are not easily sold, even in ordinary times. There were also a number of road bonds in Ohio and Indiana which found no purchases.

By the same authority, in the issue of Aug. 29, it is found that the total bond sales for the week aggregate $2,891,000, and the bonds reported as not sold amounted to $2,642,000. Postponements were much smaller, amounting to only $180,000. There were 43 separate issues which were reported sold, 39 issues not sold and two where they were postponed. The record is really better than is shown by this comparison, for Portland, Ore., had $625,000 4½% bonds not sold. One can scarcely expect to sell a 4½% issue at such a time. Another large postponement was half a million dollars for California highways, bearing 5% interest, and $180,000 4½% Youngstown, Ohio, pumping station. The Sinking Fund Commission at Richmond, Va., took $500,000 bonds at 4½%.

THE MARKET FOR MUNICIPAL BONDS

Week ending	Sold	Not sold	Postponed
Aug. 22	$1,693,000	$909,000	$1,081,000
Aug. 29	2,891,700	2,642,000	180,000

Increasing South American Trade—The United States Consular Report says: "An appropriation of $50,000 for 'promoting commerce in Central and South America, which for the first time is now fortunately available to the Bureau of Foreign and Domestic Commerce for the current fiscal year, is especially opportune in the present commercial emergency. This fund will be used promptly to reinforce the existing service for the development of Latin American trade. Much work has already been done in this field, and a series of valuable reports, covering many branches of commerce, has been published. Now a number of new phases of the trade can be studied intensively in the countries in question by the special agents of the department.

"A trained agent, detailed from the Forest Service, will study markets for lumber products. Another agent will investigate markets for hardware; a third, those for clothing, hats, and similar articles; a fourth, the special markets of the countries on the Gulf of Mexico and the Caribbean Sea. Cotton textiles and fruit products will also receive special attention. These field investigations will be actively in progress as soon as these men can reach their several districts in Central and South America.

'Moreover, the appropriation for 'commercial attachés' of the Bureau is also available, and the appointees of this new class of trade promotion agents of the Government for Dio de Janeiro, Buenos Aires, Santiago, and Lima, will be promptly dispatched to their posts as soon as they are selected, as a result of a recent examination.

"A 'Latin American Section' is now established in the office in Washington to care for the details of this special work. The South American Trade Directory and other bulletins can be examined in the branch offices of the Bureau or can be purchased from the Superintendent of Documents, Government Printing Office, Washington, D. C. Reprints of several bulletins on special subjects connected with Latin American commerce are now in press."

The Terry Steam Turbine Co., Hartford, Conn., announces that it has appointed Fidanque Bros. & Sons, 15 Whitehall St., New York, its representatives in the Republic of Panama and the Canal Zone. The company also announces that its Cleveland office, in charge of L. G. Finlay, will move Aug. 1 to 503 Union Bldg.

Cement—Exports to South America—Rumors were current last week that insistent requests for cement had been coming from South America. One firm received a cable which read, "When can you ship 5000 bbl.?" However, there seems to be little disposition on the part of domestic concerns to give much attention to the South American patronage, since the credit arrangements have always proven very unsatisfactory, even in time of peace. H. S. Dudley, of the Atlas Portland Cement Co., outlines the situation in the current issue of "Printers' Ink." He said in part: "The war has considerably opened up the South American market for our product, but in order to accept such business, it is likely that we would have to extend credits to a point not deemed prudent by us, and it is highly unlikely that a very great increase will be shown in cement produced in this country going to South Americans, unless they are more ready to coincide with moderate terms instead of the extremely long credits to which the field is accustomed. This does not apply to the cement business exclusively. It applies, we believe, to many lines where the margin of net profits is small. Manufacturers will refuse to bid for, as well as sell to, South American trade under these conditions. Only where margins justify long terms will there be, in my opinion, any considerable expansion of our trade with South America. Owing to the difficulty which must for a short time at least surround the movement of gold, it must be apparent to the thoughtful that a considerable extension of credit by American sources must result to secure the trade which must naturally be diverted in a larger imeasure to us, it seems important that American producers and financial interests generally should appreciate the necessity of a very thorough study of this factor, while at the same time extending every credit facility justified by the desire to be of assistance to those countries which must now have our foodstuffs and merchandise."

Increasing Passenger Rates—Pennsylvania's decision to increase the rate on passenger mileage books on October 1 from two cents per mile to two and a quarter cents is believed by railroad men to be the first of many passenger rate increases that will be announced within the next few months. Railway men pointed out to-day that such action would carry out one of the many suggestions made by the Interstate Commerce Commission in the five per cent. freight rate decision recently handed down.

While refusing the request of the Eastern roads for a five per cent. increase in freight rates, the Interstate Commerce Commission expressed the belief that the lines in question needed more revenue and could increase their earnings in a number of ways, one by increasing passenger rates. In that connection the Commission said:

"The information available indicates that not only is the operating rate of the passenger-train service much greater than that of the freight-train service, but that the ratio of property investment to gross earnings is much greater in the passenger service. Hence the ratio of capital charges, and usually also the ratio of the taxes attributable to passenger service, is much greater than the ratios attributable to the frieght service. Thus, on the Pennsylvania R.R., the estimated property investment per dollar of freight earnings was $4.48 in 1910, $4.16 in 1910, $4.29 in 1911, and for each dollar of passenger-train earnings was $7.60 in 1909, $7.15 in 1910, and $10.66 in 1911. In 1911 the property devoted to the passenger-train service earned much less than one-half of one per cent., while that devoted to the freight-train service earned $7.09."

A Scouting Trip—Wishing to enlarge the market for the products of their clients, W. L. Rickard, of Rickard & Sloan, Inc., 20 Vesey St., New York, N. Y., will make an extended trip through South America, leaving New York the latter part of September. He will visit the principal cities on both coasts and will make a thorough investigation of the markets and the best method of selling machinery and mechanical materials and devices. In connection with this trip, Mr. Rickard made the following statement: "For some time past, several of our clients have been considering the advisability of entering the export field, particularly in South America. They have felt that the Latin-American countries offered a large market for their products, and we have been conducting a preliminary investigation in this field to ascertain the best way to reach it. Naturally, with the countries which have had the lion's share of this business at war, and their industries practically at a standstill, the question has been brought to our attention more forcibly than ever. In order that we may determine just what a manufacturer has got to do to obtain some of this business, we decided that a personal investigation was the only thing, and for that purpose I will visit the largest cities and make a thorough investigation for those of our clients who can profitably enter this field. I expect to be away between four and five months."

TUNNEL, BOSTON, MASS.

✚Bids were received by the Boston Transit Commission, Aug. 12, for constructing Sect. D of the Dorchester Tunnel from (A) Michael Meehan, Boston; (B) William J. Sheils, Boston; (C) Rowe Contracting Co., Boston; (D) James J. Coughlan Co., Boston; (E) Coleman Bros., Boston; (F) P. McGovern & Co., Boston; (G) HUGH NAWN CONTRACTING CO., Roxbury (awarded contract). The item bids were as follows:

	A	B	C	D	E	F	G
55,000 cu.yd. earth excavation, open cut	$6.00	$5.50	$4.50	$5.00	$4.90	$4.20	$5.00
15,000 cu.yd. earth excavation, tunnel	10.00	6.50	7.50	6.50	6.00	7.00	5.00
500 cu.yd. concrete masonry, removed	10.00	12.00	7.00	7.00	10.00	7.00	10.00
4000 cu.yd. concrete base removed	6.00	0.75	0.60	0.75	0.50	0.75	0.60
10,000 cu.yd. concrete, open cut	12.00	2.50	11.50	11.50	11.00	11.80	11.00
6000 cu.yd. concrete tunnel	16.00	13.50	14.00	12.50	14.75	15.00	15.00
100 cu.yd. cinder concrete	7.00	7.00	8.00	7.00	7.00	8.00	8.00
100 cu.yd. cement mortar for joints	15.00	15.00	12.00	15.00	15.00	15.00	15.00
1200 cu.yd. concrete, ¾- to 3-in. stone	20.00	13.00	16.00	11.50	18.00	15.00	12.00
3500 sq.yd. granolithic for platforms	2.00	2.00	2.25	1.75	1.25	2.00	1.00
900 lin.ft. casing steel columns	20.00	1.50	2.00	1.60	1.50	1.50	1.50
200 cu.yd. brick masonry	20.00	20.00	16.00	18.00	17.00	18.00	20.00
100 lin.ft. 6- to 12-in. vitrified pipe	1.00	1.00	0.50	1.00	0.50	1.00	2.00
800 lin.ft. 4- to 8-in. vitrified pipe	1.00	1.00	1.00	1.00	0.50	1.00	1.50
100 lin.ft. 48-in. c.-i. pipe	4.00	5.00	7.00	10.00	4.00	6.00	10.00
650 tons reinforcing rods	12.00	10.00	15.00	12.00	12.00	14.00	8.00
1050 tons steel and iron	15.00	12.00	20.00	15.00	20.00	18.00	15.00
300 tons interlocking steel sheet piling	60.00	60.00	75.00	60.00	70.00	65.00	60.00
1000 sq.yd. portland-cement mortar	0.50	0.50	0.50	0.50	0.40	0.50	0.60
45,000 sq.yd. prepared textile and asphalt	0.75	0.60	0.80	0.55	0.50	0.70	0.60
5000 sq.yd. tarred felt and asphalt	0.75	0.30	0.60	0.45	0.30	0.40	0.50
Other work and risks not covered by other items	2,000.00	3,500.00	1,500.00	30 000.00	12,000.00	2,000.00	10,000.00
Supporting and protecting elevated columns	500.00	2,500.00	2,500.00	8000.00	2,500.00	1,000.00	3,500.00
21,000 sq.ft. 4-in. hard pine lagging	0.10	0.20	0.80	0.16	0.13	0.30	0.28
Extended totals	$865,650	$722,850	$714,075	$708,475	$690,205	$675,050	$673,780

RESERVOIR, SCHENECTADY, N. Y.

✚Bids were received by the Board of Contract and Supply Aug. 5 for the construction of a 20,000,000-gal. reservoir on Bevis Hill from (A) SUTTON & CORSON CO., Ocean City, N. J. (awarded contract); (B) State Highways Construction Co., Beacon; (C) John J. Hart, Peekskill; (D) Shear & Wilson Corporation, Schenectady; (E) Barzaghi-Vought Co., New York; (F) Brown & Lowe Co., Schenectady; (G) Sewage Disposal & Water Plant Co., Schenectady; (H) Eon Engineering & Contracting Co., Long Island City; (I) J. F. Cogan Co., New York; (J) Mason-Hilton Co.-Merrill-Ruckgaber Co., New York; (K) John W. Heller, Newark, N. J.; (L) Walsh Construction Co., Davenport, Iowa; (M) Buffalo Dredging Co., Buffalo; (N) U. S. Realty & Improvement Co., New York; (O) Charles Ippolito, Schenectady. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
3200 lin.ft. fence	$1.14	$1.00	$1.25	$1 12	$1.10	$0.90	$1.00	$1.00	$1.05	$0.90	$1.20	$1.05	$1.15	$1.30	$1.50
72,500 cu.yd. excavation	0.28	0.30	0.42	0.56	0.55	0.54	0.60	0.40	0.75	0.60	0.49	0.42	0.64	0.39	0.88
15,000 cu.yd. rolled embankment	0.62	0.70	0.15	0.30	0.20	0.22	0.60	0.40	0.35	0.50	0.30	0.28	0.48	0.40	0.50
12,000 cu.yd. plain concrete	6.00	6.00	7.50	6.98	6.50	7.85	7.50	8.25	7.00	9.00	7.65	7.85	8.63	7.80	9.25
5500 cu.yd. reinforced concrete	12.00	12.00	9.00	10.00	12.00	10.50	11.50	14.00	9.00	10.00	14.40	13.94	12.71	12.00	12.00
1,500,000 lb. steel reinforcement	0.02	0.0351	0.025	0.01875	0.021	0.019	0.02	0.015	0.035	0.025	0.035	0.025	0.02	0.04	0.035
7600 lin.ft. 4-in. tile drain	0.22	0.15	0.25	0.30	0.25	0.25	0.20	0.20	0.12	0.60	0.40	0.30	0.35	0.25	0.30
1400 lin.ft. 8-in. vitrified tile	0.30	0.30	0.40	0.32	0.50	0.33	0.20	0.30	0.20	1.50	0.60	0.81	0.44	0.35	0.50
250 lin.ft. 30-in. vitrified tile	4.00	2.50	4.25	3.75	5.00	2.00	3.00	5.00	3.50	5.00	3.50	3.50	3.44	6.50	2.75
15,100 sq.yd. waterproofing, Class A	0.08	0.04	0.50	0.50	0.45	0.20	0.06	0.20	0.18	0.50	0.45	0.45	0.44	0.45	0.50
15,100 sq.yd. waterproofing, Class B	0.41	0.15	0.75	0.75	0.60	0.62	0.12	0.60	0.65	0.65	0.50	1.80	0.80	1.50	1.75
9 manholes	164.15	50.00	75.00	200.00	75.00	40.00	100.00	40.00	50.00	200.00	50.00	55.00	181.00	175.00	65.00
Gate house (lump sum)	7892.50	8000.00	8000.00	6475.00	4800.00	6500.00	5500.00	4000.00	8000.00	5000.00	5000.00	8000.00	7000.00	6000.00	12,000
500 lin.ft. paving gutter	1.77	1.00	2.50	2.50	1.75	0.60	1.50	1.00	1.50	2.00	0.75	0.70	2.50	2.00	1.50
Extended totals	$222,874	$240,304	$246,522	$247,899	$248,200	$248,399	$251,744	$257,030	$273,185	$287,655	$292,590	$293,679	$293,684	$300,330	$356,877

CONTRACT PRICE

RAPID TRANSIT SYSTEM, SECTION 3, ROUTE 33, NEW YORK CITY

Bids were received by the Public Service Commission Aug. 21, for constructing Sect. 3, Route 33, a part of the Broadway-Fourth Ave. and Seventh Ave.-Lexington Ave. rapid transit system from (A) Flinn-O'Rourke Co., Inc., New York; (B) Smith, Hauser & MacIsaac, Inc., 18 East 41 St.; (C) Oscar Daniels Co., Woolworth Bldg., New York; (D) Underpinning & Foundation Co., 290 Broadway, New York; (E) Frederick L. Cranford, Inc., 177 Montague St., Brooklyn; (F) Bradley Contracting Co., 1 Madison Ave., New York; (G) Rapid Transit Subway Construction Co., 165 Broadway, New York; (H) Rodgers & Hagerty, Inc., Hudson River and 152d St., New York. The item bids are as follows:

	A	B	C	D	E	F	G	H
116,700 cu.yd. earth excavation above mean high water	$5.00	$4.30	$6.20	$5.00	$4.20	$5.00	$6.50	$6.00
4700 cu.yd. earth excavation below mean high water	5.00	4.50	7.00	10.00	8.00	8.00	6.50	6.00
7000 cu.yd. earth excavation above and below mean high water sewers	5.00	4.50	6.20	5.00	6.00	6.00	4.00	6.00
692 front ft. underpinning buildings seven stories or more	120.00	150.00	50.00	200.00	350.00	200.00	250.00	300.00
Underpinning Brooklyn Borough Hall (lump sum	15,000.00	20,000.00	50,000.00	20,000.00	25,000.00	30,000.00	40,000.00	5,000.00
58,700 cu.yd. tunnel excavation above mean high water	8.00	9.00	11.00	12.00	16.10	12.50	15.00	21.00
14,900 cu.yd. tunnel excavation below mean high water	8.00	9.00	12.00	12.00	16.10	17.50	15.00	21.00
44,050 cu.yd. concrete	9.00	9.50	10.50	11.00	9.00	12.50	12.00	10.00
10 cu.yd. rubble stone masonry	5.00	10.00	10.00	9.00	8.00	8.00	8.00	7.00
10 cu.yd. dry rubble masonry	3.00	10.00	6.00	8.50	6.00	6.00	7.00	7.00
10 cu.yd. brick masonry	15.00	25.00	16.00	20.00	20.00	20.00	15.00	15.00
200 cu.yd. removal of concrete	12.00	25.00	12.00	27.00	30.00	20.00	20.00	15.00
85 cu.yd. hollow terra cotta brick or tile masonry	15.00	20.00	16.00	25.00	12.00	20.00	15.00	15.00
4000 bbl. grout of portland cement	3.00	4.50	4.50	2.50	3.50	3.25	4.00	3.50
47,000 bbl. grout of natural cement	1.75	3.50	4.00	2.00	3.00	2.75	3.00	3.00
100 lin.ft. timber piles	0.40	1.00	0.70	1.00	2.00	1.00	1.00	1.00
2 M. ft. b.m. timber foundations	100.00	100.00	70.00	50.00	75.00	70.00	75.00	80.00
50 M. ft. b.m. tunnel timbering	100.00	90.00	70.00	150.00	150.00	100.00	100.00	80.00
10 cu.yd. broken stone or gravel	3.00	3.00	3.00	3.00	3.00	3.00	2.50	3.00
8000 sq.yd. waterproofing, 1-ply	0.50	0.60	0.40	0.50	0.65	0.40	0.60	0.40
100 sq.yd. waterproofing, 2-ply	0.65	0.85	0.75	0.90	0.75	0.65	0.75	0.65
12,250 sq.yd. waterproofing, 3-ply	1.25	1.20	1.10	1.30	0.85	1.05	1.00	1.00
100 sq.yd. waterproofing, 4-ply	1.40	1.30	1.40	1.70	0.95	1.25	1.50	1.25
100 sq.yd. waterproofing, 5-ply	1.60	1.50	1.70	2.10	1.05	1.60	1.75	1.50
100 sq.yd. waterproofing, 6-ply	1.90	1.75	2.00	2.50	1.15	1.90	2.00	1.90
100 sq.yd. waterproofing, dry ply	0.30	0.40	0.40	0.50	0.50	0.30	0.60	0.35
1200 cu.yd. brick in asphalt mastic	25.00	25.00	27.00	30.00	26.00	25.00	30.00	35.00
200,000 duct ft. tunnel ducts	0.12	0.12	0.12	0.16	0.12	0.15	0.12	0.18
2600 tons riveted steel	75.00	72.00	75.00	75.00	75.00	80.00	75.00	80.00
1890 tons steel beams and shapes	60.00	60.00	65.00	65.00	70.00	60.00	67.00	75.00
120 tons steel rods and bars	60.00	60.00	70.00	100.00	65.00	50.00	80.00	65.00
22,100 tons c.-i. tunnel lining	45.00	45.00	43.00	40.00	42.00	47.50	50.00	55.00
840 tons steel bolts and washers	60.00	125.00	55.00	90.00	65.00	65.00	75.00	80.00
17 tons miscellaneous iron castings	55.00	100.00	70.00	100.00	75.00	70.00	65.00	70.00
1 ton miscellaneous w. or c.i. for sewers	65.00	150.00	75.00	100.00	100.00	75.00	70.00	100.00
1500 lb .special wire forms	0.15	0.12	0.20	0.20	0.15	0.15	0.10	0.15
13,150 lin.ft. wood hand rail	0.50	0.50	0.20	0.50	0.50	0.75	0.60	0.45
3080 sq.ft. steel gratings for ventilation	2.00	1.50	2.00	1.60	2.00	1.50	1.50	1.50
1180 sq.ft. vault lights	1.25	1.50	1.50	1.25	1.50	1.25	1.50	1.50
2000 sq.yd. restoration of sidewalks	2.50	2.00	2.50	2.70	2.25	2.50	2.00	2.50
1370 sq.yd. restoration of roadways—asphalt	3.00	2.50	4.00	3.50	3.00	3.00	3.00	2.50
6270 sq.yd. restoration of roadways—granite block	3.00	2.50	3.50	2.50	3.00	3.00	3.50	3.00
250 sq.yd. restoration of roadways—wood block	4.00	5.00	4.00	5.00	4.00	4.00	4.00	4.00
100 lin.ft. new granite curb	1.00	2.00	1.50	2.50	1.75	1.50	2.00	1.75
50 sq.yd. new cement sidewalk	2.25	3.00	2.00	2.00	1.80	2.25	3.00	2.00
10 sq.yd. park surface restored	3.50	5.00	3.00	3.00	2.00	3.00	5.00	2.00
7000 lin.ft. electric conduits, ¾-in. w.i. or steel	0.20	0.20	0.15	0.40	0.30	0.20	0.25	0.30
1000 lin.ft. electric conduits, 1¼-in. w.i. or steel	0.40	0.40	0.30	0.55	0.45	0.30	0.40	0.40
1400 lin.ft. electric conduits, 2-in. w.i. or steel.	0.55	0.55	0.40	0.60	0.60	0.40	0.50	0.50
9000 lin.ft. electric conduits, 1-in. w.i. or steel.	0.25	0.30	0.20	0.50	0.40	0.25	0.30	0.30
725 c.-i. outlet boxes	0.50	1.00	1.00	1.25	2.00	1.00	1.00	1.75
30 c.-i. pull boxes	1.50	5.00	1.00	1.25	4.00	2.00	2.00	2.00
1020 lin.ft. vitrified-pipe sewer, 12-in	1.50	2.50	2.50	5.00	3.00	1.50	3.00	3.00
20 lin.ft. vitrified-pipe sewer, 15-in	2.00	3.00	3.00	5.10	3.50	2.00	3.50	3.50
310 lin.ft. vitrified-pipe sewer, 18-in	2.50	3.50	3.50	5.40	4.00	2.50	4.00	4.00
100 lin.ft. vitrified-pipe sewer, 20-in	2.85	4.00	4.00	5.90	5.00	3.00	4.25	4.50
235 lin.ft. vitrified-pipe sewer, 22-in	3.20	4.50	4.20	6.40	5.50	3.25	5.00	5.00
30 lin.ft. vitrified-pipe sewer, 24-in	3.50	4.50	4.80	6.90	6.00	4.00	5.25	5.50
1 ton c.-i. sewer pipe, straight	35.00	60.00	40.00	60.00	40.00	75.00	50.00	40.00
1 ton c.-i. sewer pipe, special castings	75.00	100.00	80.00	120.00	80.00	100.00	75.00	60.00
20 lin.ft. brick or concrete sewer, 3 ft. 6 in. by 2 ft. 4 in	4.00	15.00	5.00	9.00	12.00	10.00	7.00	12.00
80 lin.ft. brick or concrete sewer, 4 ft. 6 in. by 3 ft. 0 in	5.00	20.00	8.00	12.00	12.00	15.00	9.00	16.00
100 cu.yd. brick masonry in sewers	15.00	30.00	16.00	25.00	20.00	20.00	15.00	20.00
100 cu.yd. concrete in sewers	10.00	30.00	17.00	15.00	15.00	15.00	12.00	15.00
2200 lin.ft. maintaining electric (overhead trolley, single track) railroad	5.00	5.00	8.00	5.00	5.00	4.00	10.00	6.00
38 underpinning elevated railroad columns	700.00	1,000.00	600.00	2,500.00	1,500.00	1,000.00	1,000.00	1,000.00
Underpinning Brooklyn-Manhattan Rapid Transit R.R. in Fulton St. (lump sum)	8,000.00	15,000.00	10,000.00	20,000.00	14,000.00	70,000.00	15,000.00	5,000.00
Underpinning Fourth Ave. Rapid Transit R.R. in Flatbush Ave. (lump sum)	6,000.00	10,000.00	15,000.00	10,000.00	6,000.00	3,000.00	10,000.00	5,000.00
2000 lin.ft. w.-i. or steel bypassing pipes, 8-in.	3.00	5.00	3.50	6.00	2.50	5.00	5.50	3.00
21,000 duct ft. changing electric ducts and conduits	0.25	0.50	0.25	0.75	0.75	0.50	0.75	0.50
Extended totals	$3,395,152	$3,611,767	$3,934,506	$3,949,264	$4,173,310	$4,199,616	$4,600,930	$5,028,224

Items 80 to 95 inclusive, 99Ab to 125 inclusive, and 127 to 127A1 inclusive, include changing of pipe and ducts. The total amount involved being too small, no figures are given.

Yarnall-Waring Co., Chestnut Hill, Philadelphia, Penn. Catalog. "The Log Book of the Power Plant." Lea V-notch recording liquid meter. Illustrated, 88 pp., 6x9 in.

Pawling & Harnischfeger Co., Milwaukee, Wis. Bulletin No. 8. Tamping machines. Illustrated.

The Cyclone Drill Co., Orrville, Ohio. Catalog C-35. Cyclone cable tools. Illustrated, 64 pp., 7x10 in.

The American Rolling Mill Co., Middletown, Ohio. Pamphlet. "Iron Roofs that Resist Rust." Illustrated, 48 pp., 6x9 in. Pamphlet. "Defeating Rust—The Story of Armco Iron." Illustrated, 44 pp., 6x9 in.

Among the Contracts recently awarded to the Raymond Concrete Pile Co., 140 Cedar St., New York, N. Y., are the following: Concrete piles and foundations for steel towers on the Ohio Connecting Ry. Bridge, Brunots Island, Pittsburgh, Penn.; concrete piles for the foundation of factory at 119 Ontario St., Toledo, Ohio; foundation for the building of the J. T. Lewis Co., Philadelphia, Penn.; concrete piles for the foundation of warehouse for Edward Wagner, Wheeling, W. Va.; concrete piles for the foundation of the plant for the National Casket Co., Long Island City, N. Y., concrete piling and foundations for the English Evangelical Lutheran Church of the Reformation, Baltimore, Md.

HOW EUROPE PREPARED THE WAR CHEST

Charles Arthur Conant, the economist, in the Sunday New York **Times**, discusses how Europe prepared her war chest for the present conflict. He says in part:

In Germany, the story was familiarly told that the Kaiser, near the end of the year 1913, inquired of the governor of the Imperial Bank if the German banks were equipped for war. Being told that they were not ready, he is said to have replied, "When I ask that question again, I want a different answer."

By maintaining a discount rate of 6% at the Imperial Bank from January 1 to October 27, 1913, by active bidding at the London gold auctions for the gold which arrived weekly from South Africa, and by several changes in monetary legislation, the gold was steadily piled up which might enable the governor of the bank to answer "yes" when again asked whether German finance was equipped for war.

From a gold fund of $184,000,000 on December 31, 1912, the Imperial German Bank increased its reserve to $336,000,000 on June 30, 1914. In addition, it gathered up for the Imperial government a sum of about $30,000,000 to be added to the same amount stored in the vaults of the Juliusturm at Spandau. This sum of $60,000,000 is rendered productive to the government in a sense by the distribution of an equal amount of government paper money in small denominations in the circulation. The government is under no pledge, however, to hold the gold against the notes in case of war, and if taxes and loans fail, or are slow in reaching the treasury, the gold can be employed to obtain necessary war supplies even from the hard-hearted foreigner who will accept no other form of payment.

France piled up her gold holdings in eighteen months from $616,000,000 to $792,000,000, and Russia, with a reserve already approximately $800,000,000, materially increased the amount.

Austria-Hungary has not undertaken, under the monetary reform of 1892, to pay gold freely in the redemption of notes, and her gold fund of approximately $250,000,000 has remained comparatively unchanged in amount. It was not surprising that, under pressure like this, the New York market should have been called upon to export about $84,000,000 in gold before the war cloud burst, during the first six months of the present year, and that it should have lost another sum of about $46 000,000 when Europe decided to throw over American securities at any price in order to convert her assets into money.

The entire gold production of the world during the eighteen months ended on June 30, 1914, was approximately $705,000,000. Of this amount about $200,0000,000 is required for the arts and $150,000,000 went to British India. This left about $355,000,000 to be applied to monetary uses, and the whole of this amount was absorbed by the four great central banks of Germany, France, Russia, and Austria-Hungary.

What course Germany should pursue in respect to her monetary system in case of European war was the subject of considerable discussion in the special commission which was appointed in 1908 to consider the revision of the charter of the Imperial Bank. It was generally agreed that two steps were advisable—to permit the utmost accumulation of gold in the Imperial Bank, and to protect that gold against abnormal demands.

These two steps were, first, the issue of notes for small amounts, with the object of substituting notes for the gold in circulation; and, second, making the notes of the Imperial Bank legal tender throughout the empire. In 1906 the bank had already departed from its original policy of keeping the circulation saturated with gold coin by authorizing the issue of notes for 50 marks ($11.96) and 20 marks $4.76). The effort was at first made to limit the issue of notes of these denominations to 300,000,000 marks ($72,000,000) but early in 1912 this limit was passed, and within the next two years the issue of these two denominations of small notes rose to 681,822,000 marks, and their ratio to the total note circulation to about 26%.

The government of Russia had already reversed its original policy of 1897, of saturating the circulation with gold coin, and adopted the policy of issuing small notes. The notes of the smallest denomination, 1 ruble (51½c.) were indeed retired; but notes for 3 rubles, 5 rubles, and 10 rubles ($5.15) were steadily pumped into the circulation until, as early as 1909, they constituted 46.5% of the total amount of paper outstanding. Within the next five years the gold in the State bank was increased by about $170,000,000, which nearly covered the increase of the outstanding note issue by $209,430,000.

Belgium had for several years issued notes of small denominations to take the place of her disappearing gold and silver coin; but France reserved the power to issue notes below 50 francs ($9.65) until the need for them should be developed by the mergency of war. This foresight did not restrict great additions to her gold reserve, and gave her an opportunity to add materially to the resources of the Bank of France, when, on the outbreak of war, notes were promptly authorized for 20 francs ($3.86) and even for 5 francs (96½c.)

With the general suspension of gold payments at the central banks of Europe, except at the Bank of England, the banks are in a position to resist raids upon their gold and to lend their resources, as far as sound banking policy permits, to the struggle of their governments to maintain national independence. In England, while the bank is still paying gold for notes, the policy of keeping gold in circulation has been abandoned, and the old limit of note issue, which was £5 ($24.40), has been lowered to 10 shillings ($2.44) and £1 ($4.88).

It is not the purpose of any of the European powers, to carry on the war by issues of paper money. The suspension of gold payments at the banks and the issue of notes for small denominations, which are legal tender in domestic transactions, is for the purpose of husbanding the gold stock against needless runs and keeping it as a guarantee fund of national solvency. It is the course which was adopted by France at the time of the Franco-German war in 1870, but so prudently were the affairs of the Bank of France conducted that the paper never fell more than 2½% below its value in gold.

A similar policy of reserve will probably be pursued by the banks of France, Germany and Russia in the present contest. The government of France has raised the maximum limit of the note circulation of the bank by nearly $1,000,000,000, but the increase will not be used except as additional currency may be required, owing to the restriction in other forms of credit and the special demand for notes in the districts where the armies are gathered.

Contracts for Dual System of Rapid Transit

FOR OPERATION BY NEW YORK MUNICIPAL RAILWAY CORPORATION

Broadway-Fifty-ninth St. Subway—(In Manhattan). Route No. 5

Section	Limits	Contractor	Contract executed	Amount of Contract	Item Bids Published in Engineering News
1	Morris to Dey St.	F. L. Cranford, 177 Montague St., Brooklyn	Sept. 27, 1912	$1,222,269.20	Sept. 19, 1912
1-A	Dey St. to Park Pl.	F. L. Cranford, 177 Montague St., Brooklyn	Sept. 27, 1912	982,740.70	Sept. 19, 1912
2	Park Pl. to Walker St.	Degnon Contracting Co., 30 East 42nd St., N. Y.	Feb. 6, 1912	2,355,828.50	Feb. 1, 1912
2-A	Walker St. to Howard St.	O'Rourke Engineering Contracting Co., 345 5th Ave., N. Y.	July 17, 1912	912,351.60	April 11, 1912
3	Howard St. to Bleecker St.	Underpinning and Foundation Co., 290 Broadway, N. Y.	Jan. 19, 1912	2,295,096.50	Jan. 18, 1912
4	Bleecker St. to Union Sq.	Dock Contractor Co., 2 Rector St., N. Y.	Aug. 19, 1913	2,578,078.00	July 10, 1913
	Broadway (Manhattan)—Fourth Ave. (Brooklyn)—Routes Nos. 4 and 36				
1	Union Sq. to 26th St.	E. E. Smith Contracting Co., 101 Park Ave., N. Y.	Aug. 1, 1913	$2,056,702.50	Aug. 7, 1913
2	Broadway, 26th St. to 38th St.	United States Realty & Investing Co., 111 Broadway, N. Y.		$2,657,004.00	May 7, 1914
Total				$15,060,061.00	
	Canal St. Manhattan—Route twenty				
2	In Canal St. from Bowery to Broadway	Underpinning & Foundation Co., 290 Broadway, N.Y.		$1,822,999.00	May 21, 1914
	Fourth Avenue Subway—(In Brooklyn)				
	Six sections, extending from Manhattan Bridge through Flatbush Ave. extension, Fulton St., Ashland Pl. and Fourth Ave. to 43rd St. Contracts let in May, 1908; approved by Board of Estimate and Apportionment in October, 1909, and work begun in November, 1909			$16,014,388.26	
	Fourth Ave. Extension Subway—Route No. 11-B—(In Brooklyn)				
1	43rd St. to 61st St.	Degnon Contracting Co., 30 East 42nd St., N. Y.	Oct. 4, 1912	$1,930,258.50	Sept. 26, 1912
2	61st St. to 89th St.	Degnon Contracting Co., 30 East 42nd St., N. Y.	Oct. 4, 1912	1,904,171.25	Sept. 26, 1912
Total				$3,834,429.75	
Total—Fourth Ave. line and extension				19,848,818.01	
	Brooklyn Loop Line (Centre Street)—Route No. 9-O—(In Manhattan)				
	Extending from the Manhattan terminus of the Brooklyn Bridge under Centre St. and Delancey St. extension to Williamsburg Bridge, with spur at Canal St. to the Manhattan Bridge (including real estate, but not engineering, etc.)			$12,767,732.07	
	New Utrecht Ave. Elevated Line—Route No. 39—(In Brooklyn)				
2	39th St. to Coney Is.	Post & McCord, Inc., 101 Park Ave., N. Y.	Dec. 31, 1913	$1,672,190.00	Dec. 4, 1913
	Route No. 33—In Manhattan				
1	Trinity Place and Warren St. to South St.	Booth & Flinn Ltd., 3785 Broadway, N. Y.		$2,059,182.00	April 23, 1914
2	Montague Tunnel	*Booth & Flinn Ltd., and O'Rourke Engineering & Contracting Co.		$5,974,869.00	June 4, 1914

A Yankee Merchant Marine—As steps in the development of the American Mercantile Marine the passing into law with the signing by President Wilson of the ship registry bill and the war risks insurance bill was welcomed yesterday by Philip A. S. Franklin, vice-president and general manager here of the International Mercantile Marine, according to the "Journal of Commerce," New York.

Mr. Franklin is a member of the special committee of the Chamber of Commerce appointed by President Seth Low on problems of shipments during the European war. This committee urged the prompt passage of the American registry bill for such relyief as it might bring, and attended the conference held at the Treasury Department Aug. 14.

"The ship registry bill, in my opinion, goes a long way to help build up a mercantile marine by facilitating the transfer of ships from a foreign register to the American flag. Here is now the opportunity for American capital invested in shipping to place upon the national register the ships owned by it, and immediate relief should follow in increasing our tonnage to meet the lack of ships we suffered from at the outbreak of the war.

"As to the operation of the ships, the proclamation of the President, which he is authorized to make and which I understand he is likely to make at once, will place our ships in a better position to meet the competition of foreign-owned ships operated at less expense than our present laws permit us in carrying on the steamship business as a calling of its own.

"One of our ships may be transferred immediately under the new law.

"With regard to the war risks insurance bill, this is an emergency bill and its going immediately into effect on the President signing it will help the situation for this reason. There is not enough insurance available in the local market to cover the valuable cargo of a modern big ship. The Government assistance in this direction will practically release much cargo that is offered and has been held back by the high rates that have been exacted.

"There is the question of building ships for the American register. I have stated and repeat it that for the American Line the International Mercantile Marine is willing to build steamships to be always available for the Government's service as express mail carriers and for use as auxiliary cruisers when circumstances demand if the Government will bear a share of the cost, in the same way as that in which the "Mauretania" and "Lusitania" were built with the pecuniary assistance of the British Government."

A Cotton Warehouse at Pensacola—From a reliable source it has been learned that the Government has asked the Louisville & Nashville Ry. to make provision for the storage of 250,000 bales of cotton here this fall, and plans are under way to secure storage space in various other parts of the cotton belt. It is understood that this is one of the results of the movement inaugurated by the Government to aid in marketing the cotton crop as a result of the situation created by the European war. In addition to the storage facilities in the Louisville & Nashville warehouse it has already been announced that the Atlantic Compress Co. is prepared to store at least 150,000 bales of cotton this season.

Contracts for Dual System of Rapid Transit—Continued

FOR OPERATION BY INTERBOROUGH RAPID TRANSIT CO.

		Seventh Ave.-Lexington Ave. Subway—Routes Nos. 5, 19 and 22, 43, 16, 4 and 38, 9 and 48			
*6	26th St. to 40th St.	Bradley Contracting Co., 1 Madison Ave., N. Y.	July 21, 1911	$3,634,213.50	Nov. 3, 1910
	* Work stopped on April 26, 1912, on account of change in routing of this branch.				
		Lexington Avenue Branch—Route No. 5			
7	43d St. to 53d St.	Rapid Transit Subway Construction Co., 165 Broadway, New York		$1,915,164.00	June 25, 1914
8	53rd St. to 67th St.	Bradley Contracting Co., 1 Madison Ave., N. Y.	July 21, 1911	$3,369,484.20	Nov. 3, 1910
9	67th St. to 79th St.	P. McGovern & Co., 1 Madison Ave., N. Y.	Feb. 13, 1912	1,961,997.00	Dec. 14, 1911
10	79th St. to 93rd St.	Bradley Contracting Co., 1 Madison Ave., N. Y.	July 21, 1911	3,253,072.80	Nov. 3, 1910
11	93rd St. to 106th St.	Bradley Contracting Co., 1 Madison Ave., N. Y.	July 21, 1911	3,132,195.05	Nov. 3, 1910
12	106th St. to 118th St.	Oscar Daniels Co., Woolworth Bldg., N. Y.	Sept. 3, 1911	2,825,740.74	Nov. 3, 1910
13	118th St. to 129th St.	Bradley Contracting Co., 1 Madison Ave., N. Y. (Assigned to McMullen, Snare & Triest, Inc.)	Nov. 17, 1911	4,071,416.50	Nov. 3, 1911
14	129th St. to 135th St.	Arthur McMullen & Olaf Hoff, 149 Broadway, N. Y.	July 23, 1912	3,889,775.05	June 16, 1912
15	135th St. to 157th St.	Hagerty-Drummond Co., 48 Park Row, N. Y. (Assigned to Rogers & Hagerty)	Nov. 17, 1911	3,820,129.75	Nov. 3, 1910
	Total			$26,323,811.09	
		Southern Boulevard Branch—Routes Nos. 19 and 22 (In the Bronx)			
1	138th St. to 147th St.	John F. Stevens Construction Co., 55 Wall St., N. Y. (Assigned Oct. 23, 1913 to Richard Carvel Co., Inc., 401 West 59th St., N. Y.)	Oct. 22, 1912	$2,253,281.75	Sept. 26, 1912
1-A	147th St. to Bancroft St.	Rodgers & Hagerty, E. 152nd St. and Harlem River, N. Y.		$2,253,159.25	Dec. 11, 1913
	Total			$4,506,441.00	
		Jerome Avenue Branch—Route No. 16—(In the Bronx)			
1	157th St. to 182nd St.	Oscar Daniels Co., Woolworth Bldg., N. Y.	Dec. 31, 1913	$1,077,978.00	Dec. 11, 1913
2	182nd St. to Woodlawn Road	Cooper & Evans, 220 Broadway, N. Y.		$1,076,831.00	Feb. 19, 1914
		Seventh Avenue-Lexington Ave.—Routes Nos. 4 and 38			
1	Battery Park to Greenwich and Vesey St.	Rapid Transit Subway Construction Co., 165 Broadway, N. Y.		$2,120,000.00	April 30, 1914
1-A	Connection from 7th Ave. Subway to present subway	Rapid Transit Subway Construction Co., 165 Broadway, N. Y.		$474,244.00	June 18, 1914
2	Vesey to Beach St.	Degnon Contracting Co., 30 East 42nd St., N. Y.	March, 1914	$3,059,522.00	Dec. 11, 1913
3	Beach St. to Commerce St.	Degnon Contracting Co., 30 East 42nd St., N. Y.	Dec. 31, 1913	$2,185,063.50	Nov. 20, 1913
4	Commerce St. to 16th St.	United States Realty & Improvement Co., 111 Broadway, N. Y.	Mar. 6, 1913	$1,837,726.00	Mar. 12, 1914
5	16th St. to 30th St.	Canavan Bros., N. Y.	Dec. 31, 1913	2,401,306.75	Nov. 20, 1913
6	30th St. to 43rd St.	Rapid Transit Subway Construction Co., 165 Broadway, N. Y.	Dec. 31, 1913	2,292,000.00	Jan. 8, 1914
6-A	43rd St. to 45th St. Times Sq.	Holbrook Cabot & Rollins Corp., 331 Madison Ave. N. Y.		$421,566.00	May 28,1914
	Total			$14,790,428.25	
		White Plains Road Line—Route No. 18—(In the Bronx)			
1	180th St. to Burke Ave.	Oscar Daniels Co., Woolworth Bldg., N. Y.	March 16, 1914	$914,400.00	Feb. 19, 1914
2	Burke Ave. to 241st St.	Alfred P. Roth, Broad St., N. Y.	Dec. 31, 1913	$958,484.00	Dec. 4, 1913
		†Woodside, Astoria and Corona Line—Routes Nos. 36 and 37—(In Queens)			
1	Queensboro Bridge Plaza	Snare & Triest, 143 Liberty St., N. Y.	Oct. 7, 1913	$884,859.00	Aug. 28, 1913
2	Astoria Line	Cooper & Evans, 220 Broadway, N. Y.	Mar. 11, 1913	860,743.50	Feb. 13, 1913
3	Corona Line	E. E. Smith Contracting Co., 101 Park Ave., N. Y.	Mar. 11, 1913	2,063,588.00	Feb. 13, 1913
	Total			$3,809,190.50	
		Steinway Tunnel Extension—Route No. 50—(In Queens)			
	Van Alst Ave. to Queensboro Bridge	Degnon Contracting Co., 30 East 42nd St., N. Y.	Dec. 1, 1913	$557,856.50	
		Route forty-eight			
3	Clark Tunnel	*Booth & Flinn Ltd., and O'Rourke Engineering & Contracting Co.		$6,469,916.00	June 4, 1919
		Lutheran Cemetery and Myrtle Ave. Connection			
2		Phoenix Bridge Co., 49 William St., N. Y.		$707,661.00	
		F. W. Burnham, 30 East 42nd St., N. Y.	Mar., 1914	$143,225.00	
		Reconstruction Steinway Tunnel-Route 26			
	42nd and Lexington Ave., under East River to Jackson and Alst Ave., L. I. City	Rapid Transit Subway Construction Co., 165 Broadway, N. Y.	Feb. 17. 1914	$383,911.00	Feb. 26, 1914
		Connection with Brighton Beach Line—Route 12			
1	St. Felix St. and Ashland Pl. to Hanson Pl.	Cranford Co., 190 Montague St., Brooklyn		$2,195,296.00	June 25, 1914
1-A	In Flatbush Ave., between St. Marks Ave., Prospect Park Plaza	Cranford Co., 190 Montague St., Brooklyn		$2,225,519.25	April 9, 1914

*Awarded two contracts jointly.
† Trackage rights also to New York Municipal Railway Corporation.